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1 2	Access to Education and Income Inequality Nexus: Findings from a Cross-Sectional Survey
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6	

#### 7 Abstract

The study examines how unequal access to education affects individuals? future income 8 generation. An individual?s access to education has been defined by certain key variables â??" family size, the distance of the school from home, location of the school, level of education of 10 parents, availability of financial aid, expenditure on education, quota facility, etc. The study is 11 cross-sectional in nature, drawing data from employees of all levels working at the Bangladesh 12 University of Professionals. The paper reveals that an individual?s level of education, parents? 13 education level, expenditure on education, financial aid, and quota facility have a significant 14 positive effect on income generation in the future. On the contrary, family size, both location 15 and distance of the school have a negative impact on income generation. It is shown that 16 access to education is hindered for individuals completing schools at sub-urban or rural 17 locations than those from urban regions which culminate into the lower-income generation in 18 the future. 19

21 Index terms—

20

### 22 1 Introduction

ducation is one of the prerequisites for building human capital, an ingredient necessary for developing a nation. Education is highly significant in determining future income levels. An individual with more education consumed is more likely to generate a higher amount of income since that individual, through years of education and training, has been able to prove them fit. However, the question remains why certain individuals fail to avail themselves of education.

Due to the prevalence of poverty, individuals vary in terms of available opportunities at their hands. While higher education often means higher income, several variables determine access to education -such as cost of education, family's financial condition, family size, aspirant's gender, etc. Besides, in this country, the quality of one's education is determined by the type of school one attends. Also, the distance from the institutions poses constraints in how one receives education and reap its benefit in the future.

Historically, investing in education has always been celebrated across nations for building efficient human 33 34 capital and eradicating the existing inequality. In the same line of thought, Bangladesh has also increased its 35 education investment. However, over the years, GDP has boosted, but the quality of education remains still 36 questionable. Although the poverty rates in the past have dropped quite significantly, income inequality is still on the rise. This income inequality can be catalyzed and generated by several factors. Education is frequently 37 mentioned as one of these factors. And education status is substantially impacted by the access opportunity to 38 education which is assumed to be highly dependent on family wealth. Nexus between education and income are 39 remarkably correlated because the educated are highly eligible to apply for a job in the formal sector, whether 40 an uneducated could not apply in the formal sector. So, it is like a trap that education determines the income 41 level, and income influences the amount of wealth, which has a direct impact on educational access. 42

### 43 **2** II.

The Rationale for the Study Bangladesh has achieved exceptional growth in terms of GDP. But there is a 44 controversy regarding this growth. Could this growth represent the original scenario of the livelihood of the 45 lower-class people? Though the GDP has increased in the recent year, it is evident from the report of Household 46 Expenditure and Income Survey report of 2019 that the Gini Coefficient of Bangladesh is 0.482, which indicates 47 that Bangladesh is running through a critical situation in terms of inequality. As per the CPD 2018, the real 48 income of the bottom 5% of households declined to TK 733 in 2016 from TK 1682 in 2010, but the real income 49 of the top 5% has increased on the same period. So, it is evident that the top 5%'s newly increased income 50 is represented in GDP growth, but the lowest 5%'s dropping income is not reflected in this increased GDP. 51 The government should ensure that everyone benefits from economic growth. The government needs to ensure 52 equitable growth, but from the report of CPD and HIES, it is evident that the increasing GDP is not inclusive. 53 Abhijit Banarjee and Esther Duflo identified that inequality is increasing day by day in developing countries 54 because of unequal opportunities of basic needs. One such basic need is access to education. As per the human 55 capital theory, education has become a crucial variable in income distribution, and the success of education greatly 56 depends on the access level of education. So, it is quite obvious that there is a relationship between unequal 57 income and unequal access to education. Or, more aptly put, one catalyzes the other. Bangladesh recently 58 enacted the Eighth Five-Year Development Plan, and inequality is seen as a major impediment to growth in all 59 of these initiatives. 60

### 61 **3 III.**

### <sup>62</sup> 4 A Brief Overview on Previous Empirical Investigations

Access to education depends on economic, demographic, and geographic variables. There are empirical shreds of
 evidence that education has a positive relationship with income generation.

Distance to school tends to be important for students across the income spectrum, but particularly for students from low-income households. According to a study by Frenette in Canada, about 27% of students from upperincome families attend university shortly after high school, which is roughly 1.5 times higher than students from middle-income families and roughly three times higher than students from lower-income families (Frenette, 2002).

According to Igboh, Emmanuel study there is a positive relationship between school distance and male and female students' academic achievement, and the findings also revealed a weak positive relationship between school

distance and male students' school attendance, while the findings revealed a weak negative relationship between school distance and female students' school attendance in Nigeria. ??Stanley et al., 2017).

The educational and social status of their parents has an impact on their children's educational experiences.
Since educational persistence is linked to better job market results (Alcaraz, 2020).

The number of siblings which is related to family size has an important and negative effect on education, according to the regression equation of siblings on educational achievement but the results are constrained in that they only illustrate the indirect impact of the number of siblings on potential earnings through educational attainment. (Gede & Wisana, 2019).

Siblings' education has great implications on education attainment. The relationship with older siblings lowers
the performance of children in lowincome families in England, while it increases the performance of children in
higher-income families. (Nicoletti & Rabe, 2019).

Agguire, Matta study showed that prior admission of their older siblings has a major impact on the college option of their younger siblings, according to this study ??Aguirre et al., 2021). Older siblings' choice of education also influences financial assistance programs are inadequate to address an unfair allocation of postsecondary education's economic resources.

Need-based student financial assistance helps to improve equality of opportunities by expanding higher 86 education enrollment, enabling students to choose from a wider variety of educational choices, and motivating 87 students to stay in school longer. It can also minimize the financial cost of college for low-and middle-income 88 families (Hansen, 1983) Coady and Dizioli's study findings highlight the critical role that education investments 89 can play in reducing income inequality, especially the critical role that education expansion policies emphasize 90 more equitable access to education. When dynamic panel estimation techniques are used, the positive relationship 91 between education and income inequality becomes somewhat greater, statistically significant, and consistent 92 across estimators. (Coady & Dizioli, 2017). 93

Rodríguez-pose and Tselio obtained that previous-period income inequality influence currentperiod income
 inequality (Rodríguez-pose & Tselios, 2008).

Mexican government rolled out Oportunidades (originally called PROGRESA), an innovative, wide-scale government cash transfer program that gives grants to low-income mothers to offset the real and opportunity ecosts of sending their children to school. Money is given to mothers instead of fathers in order to ensure that the money reaches their children. The popularity of this policy, as well as educational policies that make primary education compulsory, has resulted in nearly 100% primary school attendance in Mexico (Alcaraz, 2020).

In association with the fact that working parents earn more money and can easily replace parental time care by engaging in high-quality specialized childcare. Others consider the loss of parental time care to be a downside ??Yang & Bansak, 2019). Frenette's study only examined the probability of attending university shortly after high school graduation and focused on geographical location. The study was based on student who was about to graduate high school. The study did not focus on primary and secondary going students. This study is applicable for high-income countries with less population as it was studied in Canada. (Frenette, 2002). Also, the prevalence of student loans and higher returns in developed countries like Canada is also a crucial determinant of higher study which is not seen in the least developed countries.

According to Stanley's research, the distance was defined as short when distance is 1 or 2 K.M. and far when distance 3 or 5 K.M. If we study the relationship of education attainment and distance of educational institutes of different degrees of education the distance should be defined more vastly. (Stanley et al., 2017). In the Bangladeshi context mostly, academic performance is judged upon public exam result in primary and secondary and CGPA at tertiary level.

As stated in Alcaraz's study on the relationship between education and parents' status there was government cash transfers to parents especially mothers to mitigate the opportunity cost of sending their children to schools. This policy not yet been adopted in Bangladesh. However, we can study the effect of government-based scholarship, given to meritorious student for their performance in public exams (Alcaraz, 2020).

Nicoletti and Rabe study was based only on the National curriculum, some countries might have a diverse curriculum. So, the effect of siblings on education attainment might vary in the least developing countries (Nicoletti & Rabe, 2019). Study of Coady and Dizilio the economic analysis with a human capital model which only contains income and years of schooling and disregarded the wealth effect on education (Coady & Dizioli, 2017). According to Gade and Wisana study in China has little shortcoming as China has adopted one-child policy in 1980, So the household is likely to have less no. of children and resulting in fewer siblings. IV.

## <sup>126</sup> 5 The Objective of the Study

Broad Objectives: The main objective of this study is to investigate the relationship between inequality in access to education and income distribution.

The study aims to reveal the following -(i) To identify the causes that create inequality in accessing education.
(ii) To reflect on the nexus between unequal access to education and income distribution.

# <sup>132</sup> 6 Data and Research Methods

131

V.

133 The study follows both quantitative and qualitative. For the quantitative section, primary data have been 134 collected through an in-person selfadministered questionnaire-based field survey. Respondents answered 30 135 questions on their current income, education qualification, the geographical location of birth, family income, parents' education, etc. Human capital is largely dependent on the time allocation on education and also on the 136 quality of educational institutions. So, for a better understanding of the existing unequal access to education, 137 respondents were also asked about the location of their institutions and the distance from the residence. Access 138 to education is highly dependent on the concurrent income of the family. So, we collect data of the present 139 income of the individuals and the past income of their family during his studentship which is accounted long 140 years ago. We have also collected data about the number of total brothers and sisters because a constant family 141 income per capita expenditure on the education of a family is inversely related to the total number of brothers 142 and sisters of the family. Geographical location has a great impact on access to educational institutions. So, 143 144 respondents were also asked about their geographical location. Access to education is largely dependent on the availability of the study materials and also dependent on the availability of the family to bear the educational 145 expenses. So, all the respondents are asked about their type of school, whether that was a private school or 146 NGO-based school, or Government school. There is a positive impact of the scholarship on access to education. 147 So, the respondents are also asked about whether they received any scholarship or financial aid during their study 148 life. The sample has been formed with 50 respondents; among them, 2 have been dropped due to not providing 149 sufficient and coherent information for analysis. The survey respondents are current employees serving at the 150 Bangladesh University of Professionals. Among the 48 respondents, 34 were male and 16 were female. For the 151 quantitative section, descriptive statistical analysis was performed. Multivariable regression analysis and binary 152 logistic regression techniques have been used to find the stated nexus. Partial and total correlation analyses have 153 been run to detect the association among the variables. A necessary diagnostic test has been done for further 154 155 assurance. MS Excel and STATA have been used for analysis. Though we avoid the impact of years of job 156 experience on income there is an interview on the interview section to represent the impact of job experience 157 besides educational qualification on income generation.

To understand the nexus between income inequality and education level, the study, and examination of enrollment rates in primary and secondary schools are very crucial. The secondary data of primary and secondary school enrollment has been used from the data bank of the World Bank.

For the qualitative analysis, three employees from BUP were interviewed upon conditional consent of not being willing to disclose their identity. Among them, one respondent answered partially in the interviewbased survey.

### <sup>163</sup> 7 a) Limitation of the Survey

Due to the pandemic situation and time shortage, the survey was confined in BUP. There were some difficulties 164 while collecting data. First, there were some sensitive questions in the questionnaire such as family income, family 165 wealth. Some respondents were unwilling to give information about their income and wealth. Second, the survey 166 time was during office hours, so the respondents were busy, and some of them refused to fill up the questionnaire 167 as they were involved in official duty. Thirdly, most of the respondents were asked to brief about the study 168 that took a lot of time. Fourth, the faculties were very cooperative, and they were the majority who submitted 169 the questionnaire most. It created biases in the study. Lower-level staff hesitated to fill up the questionnaire. 170 Fifth, there were some administrative restrictions, and we could not collect data from the admin building. The 171 respondents were from academic building. Finally, lack of incentive and absence of any reward for completing the 172 questionnaire there were fewer respondents. We need to drop some important variables due to missing response, 173 partial response and outlier observations. VI. 174

### 175 8 Results and Discussions

This section of the study reflects on the overall status of the respondents from different dimensions, such as 176 condition of the current income, family wealth, educational qualifications, etc. The lowest monthly income was 177 1000 BDT, and the highest was 130000 BDT. The average monthly income of the sample is 34,139 BDT. The 178 179 following frequency distribution table gives a better idea regarding the monthly income of all respondents. The table clearly shows that the largest number of respondents fall under the monthly income bracket of 20000 to less 180 than 39000 BDT, which is 45%. However, the second largest (33%) group concentrates under the 39000 to less 181 than 58000 BDT. For better understanding, the following bar graph is helpful. The survey sample shows that 182 the majority of the respondents have completed a master's degrees. nine respondents have completed SSC only, 183 while five have completed HSC. 184

185 The respondents were also asked about their expenditure on education while they were students. The average expenditure on education of the sample is 3043 BDT per month and additional expenditure for buying stuff 186 like pen, pencil, books and coaching etc. was 998 BDT per month. The following graph exhibits the additional 187 188 expenditure in a better manner. In partial correlation analysis, it shows a positive association between the current monthly income of the respondents and the income of their respective families. The coefficient of correlation is 189 0.55. In the regression analysis it shows, all the other variables remain constant, if the family income increase 190 by 1000 taka, the current income of the respondent is increased by, on average, around 1730 taka at 5% level of 191 192 significance. Family income is also positively associated with the current wealth of the respondent (correlation coefficient 0.57). And the regression result shows that, if the family income increases by taka 1000, the current 193 194 wealth of the respondent increased by taka 1796 on an average. The current income of the respondents is also 195 associated with the education level of the parents. Regression result shows a significant relationship between 196 the respondent's current income and the education level of the parents. It shows that the current income of the respondents increases by around 2967 taka if the years schooling of the parents is increased by one year on an 197 198 average, all the other variables remain constant.

Our study finds that respondents with higher expenditure on education have more current income. All the other variables remain constant, if the education expenditure of the respondents during their study life increase by taka 1000 per month, the current income of the respondents increases by taka 3757 per month. The impact of the expenditure on education is more on the primary and secondary levels. If we add the gender dimension in the analysis, we can see that the average expenditure of education on female is 40% lesser than their male counterpart. Which is also reflected in their respective monthly current income. In our survey result, we can see that the income gap between male and females is about 53 percent.

Family size shows a significant role in defining the income distribution in the study. As the number of family members increases by one, the average current monthly income of the respondent decreases by taka 270 with 5% level of significance. Again, we see a positive association between the number of educated siblings and the current monthly income of the respondents.

In our analysis, we see that there is a significant role of financial aid on the income of the respondents. Respondents who have received any financial during their study life have more current income than others. The regression results show that the current income of the respondents increases by taka 527 if the financial aid received by the respondents amounts to 1000, all else equal.

And it is as expectedly, level of education significantly explained the current income of the individuals. As per the regression result, we can see that, as the years of schooling of the respondent increase by 1 year, the current monthly income of the respondent increases by taka 3015.

The study shows significant relationship between the current income of an individual and the distance between educational institutions from the home of that individual. Individual's current income declines when the distance of the school from home increases.

Respondents were asked about the type of school they studied based on the geographical locationmetropolitan, urban, semi-urban, and rural. In our study, we see that the income of the individuals studied from metropolitan city are higher than the rural. We did not find any significant relationship between quota facilities and the current income of the respondent at 5% level of significance.

## 224 9 a) Interviews

The quantitative analysis shows that there are some variables that define the access to education have significant impact on the income of the individuals. Three distinct interviews reveal that there is a strong nexus between unequal access to education and income inequality.

### 228 10 Interview 1

Mr. Jahid (anonymous name) is an employee of BUP. He is now serving as a vehicle driver of BUP. His current 229 income is around 30,000 BDT. He is the eldest son of his parents. He has 5 other brother and sisters along with 230 him. His father was a farmer who operated on his land. At that time, their current income was treated as a lower 231 level of income. But after 1971, his father lost his ownership of land because they had to flee away to India during 232 the war, and when they returned to Bangladesh, they found that they lost their ownership. As a result, their 233 income level declined. And Mr. Jahid needed for dropping out of school. When asked about the reason to drop 234 out, he answered that though he read in a government school free of cost, there were some other costs related to 235 study, such as -the cost of buying the reading materials. He was more concerned about the opportunity cost of 236 237 study rather than the direct cost. He invested his study hour in agriculture to help his father to generate more 238 income to meet up their basic needs. He had not enough wealth in reserve to support them in times of crisis. As a result, he had to leave his study forcefully. Though he was intended to start studying after three years after 239 240 his father's death, it had become impossible for him to attend school because he need to support his other 5 brothers and sisters to lead their basic life. Ultimately three of his brothers and sisters were unable to attend 241 school more than secondary level because only till the secondary level the direct cost of the study is lower than 242 compared to the higher level. Moreover, his two sisters got married because they thought that it will be better 243 for them if their sisters get married early. After all, they thought that their sisters could lead a better life after 244 marriage. So, as a result, their two sisters remained uneducated. As the job of higher-income requires higher 245 educational background so none of them can apply for the top graded job. Ultimately, they could not participate 246 247 any job of a higher level of income. Ultimately, he is confined with the low-income. He could not apply for a 248 promotion because to get promotion he needs an HSC certificate, which does not belong to him. This is not the end of the story. As his income is not enough to support his family to lead a smooth life so his eldest son Jamal 249 (anonymous name) could not attend formal education after college level because during 2011, Mr. Jahid faced 250 a road accident and was unable to support his family financially so, forcefully, his eldest son needs to attend 251 work to support his family. Ultimately his son also get trapped and was unable to achieve higher education, and 252 ultimately, he could not apply for the jobs of higher income. So, his full family has got trapped in poverty which 253 254 increases inequality.

### 255 11 Interview 2

Another respondent named Mr. Foysal (anonymous name) is operating as an employee in the admin block of 256 BUP. He stated that his father was also a farmer. He is the 4 th among his 7 brothers and sisters. Though his 257 two elder brothers operate as farmers, his immediate elder brother is serving as a soldier in Bangladesh Army. 258 259 So, basically, two of his elder brothers were not even class-8 graduates. But the other 5 brothers and sisters were educated. When asking Mr. Foysal about the reason for not receiving further education of his two elder brothers, 260 he replied that his younger two brothers supported all of their brothers and sisters financially. They did not 261 have enough wealth to meet their basic needs. So, his two elder brothers served as the earning member of their 262 family. So, it is clear that his two elder brothers could not attend school due to financial problems, and it is a 263 matter of concern that the income of those two elder brothers decreases day by day. And they could not their 264 income because they were not educated. Hence, agriculture was the only earning source of them and day by day, 265 the fertility rate of their land was decreasing which led to the decreasing rate of their income. So, it is evident 266 that income generation is greatly affected by the education level. And Mr. Foysal was able to get an education 267 because he got enough support and access to the education which is ensured by his eldest two brothers. And 268 now Mr. Foysal is operating as an admin officer and could apply for promotion policy because of his eligibility 269 which is ensured by his education level. And as Mr. Foysal gets an opportunity to gather higher income. As a 270 result, his youngest brothers and sisters are also engaged in higher education. It is expected by Mr. Foysal that 271 all of them will be able to generate higher income and thus will be able to get out of the trap of poverty. As per 272 Mr. Foysal, education level works as the major determinant of income generation. Because 20 years earlier, their 273 total wealth was less than the present level, and as a result, their per head wealth was less than their need, but 274 now it has increased, which could facilitate them to reduce their income inequality. 275

#### 276 12 Interview 3

Mr. Fahim (anonymous name) is an employee of the BUP admin block. His father was a school teacher, and he is the eldest among his three brothers. The earning of his father was not enough to support their family to lead their daily life smoothly. His mother was suffering from Cancer. So, his father needed to spend extra money on the treatment of Mr. Fahim's mother. And after a few years, his mother passed away. Moreover, the death of his father during his college life affected their daily life badly. So, at a period, it was tough enough to continue his study, but fortunately for his result, he got a scholarship in class 5 and in class 8. As he was a meritorious student, so he used to earn his cost of study by doing tuition from the very beginning of his college life which help him to continue his study smoothly. He thought that without his earnings it was tough for him to continue his college because his father was not able enough to continue the cost of his study along with his mother's expenses.

He concludes that he thinks that scholarship helped him to remove stress which help him to concentrate on his study properly and to achieve meritorious results which helped him to get the job with a handsome income.

267 study property and to achieve methorious results which herped him to get the job with a handsome income

### $_{288}$ 13 Interview 4

Mr. Aziz (anonymous name) is an employee of BUP. He is operating as the in charge of his sector. His current income is stated around 39000 BDT. It is his own belief that his education qualification is not good enough to get this amount of salary, but he has experience of 18 years of doing a job in this sector. He has more practical knowledge about his job rather than theoretical knowledge which helps him to ensure a better level of income. He thinks that if he had better educational qualifications then could earn more, or he could earn this level of income at an earlier stage of his income life. That is, it is also evident that besides the education level, the years of job experience has an impact on the level of income generation.

From the interview of these three individuals, it can be concluded that the wealth or income level of a family has a huge impact on access to education. Individuals with better family conditions and higher family income can easily avail the opportunity of education. However, for cases as above, the poverty trap and other circumstances put constraints on individuals. As a matter of fact, an individual fails to utilize the access to education and drops out. This ultimately affects the future income of that individual since higher educational qualification necessarily

301 translates into better paying jobs. Again, under such conditions, the future generation also becomes vulnerable.

## <sup>302</sup> 14 b) Limitations of the Study

The maximum respondents are employed as faculty members and officers engaged in academic section, but the 303 other stuffs and officers did not respond accordingly. As a result, the sample is biased and depicts only the scenario 304 of employees of faculty members at BUP. Also, paucity of funding simply translated into failure in expanding the 305 sample collection from other universities. Thirdly, due to COVID-19, it was impossible to collect the required 306 data from the targeted universities. The paper also lacks data about the respondents' wealth. Respondents did 307 not feel comfortable while answering about the amount of wealth during the data collection period. Moreover, 308 most of the respondents have lack of idea about their family wealth during their studentship because it is hard 309 to recall about the amount of total family wealth which was available around 10 or more years ago. Moreover, 310 we have not collected data about their years of experience in job sector which could positively impact the level 311 of income generation. 312

# 313 15 VII. Conclusion and Recommendation

The paper reveals some important insights to the problem stated throughout the paper. It is very typical and coherent that income generation has a link with the education consumed. However, the consumption of education solely depends on the various parameters that shape an individual's access to education. Therefore, consistent with the typical belief, access to education has an influence over the income generation of an individual, and also on income inequality as different persons have different levels of access to education.

From the discussion throughout the paper and interview insights, it is quite clear that both qualitative and 319 quantitative findings of access to education having strong links with future income generation or income inequality 320 321 holds good. This conclusion is further strengthened by the respondents' personal experience of financial backup, distance from schools, access to peripheral education, such as utilization of private coaching and affording of 322 the notebooks. Individuals possessing the ability to afford such peripheral facilities are found to be generating 323 higher incomes in future while those failing to afford these generate comparatively lower incomes. It cannot be 324 disregarded that individuals vary in terms of access to education. Different persons have different experiences. An 325 individual from an affluent family always differs in terms of choice making from someone who belongs to a lower-326 income family. Thus, the choice to avail education and the manner in which education has been consumed largely 327 varies from person to person. This makes the entering portal to education life uneven for different people as they 328 face different constraints. As a result, the future life is affected, and income inequality is created. Government 329 and the policymakers should put more emphasis on reducing inequality in access to education to combat the on 330 growing income inequality sustainably. 331

 $<sup>^1 \</sup>odot$  2021 Global Journals Access to Education and Income Inequality Nexus: Findings from a Cross-Sectional Survey



Figure 1: Figure 1:



Figure 2: Figure 2:

1

Income Range Frequency Cumulative Frequenc	y Relat	tive Fr	equency Perce	$\operatorname{ntage}$
1000-20000	7	7	0.145833	14.583
20000-39000	22	29	0.458333	45.833
39000-58000	16	45	0.333333	33.333
58000-77000	2	47	0.041667	4.167
77000-96000	0	47	0	0.000
96000-115000	0	47	0	0.000
115000-134000	1	48	0.020833	2.083
TOTAL	48	-	1	100

Figure 3: Table 1 :

 $\mathbf{2}$ 

Education Level Frequency	
Primary	1
SSC	9
HSC	5
Honor's	1
Master's	32

[Note: Volume XXI Issue VI Version I 68 ( E )]

Figure 4: Table 2 :

- [Chaudhry et al. ()], A Chaudhry, T Chaudhry Thompson, N.; T He L Ahore J Ournal Gera, Of . Lahore
   School of Economics. The Lahore Journal of Economics 2006. 11 (2) p.
- [Rahman ()] Access to Education and Employment : Implications for Poverty Access to Education and Employment :14, R I Rahman . http://www.chronicpoverty.org/uploads/publication\_files/
   PRCPB\_WP\_14.pdf 2006.
- 337 [Adeleye et al. ()] N B Adeleye , M A Jamal , M F Ismail , S M Nazeer . 10.4018/978-1-5225-6061-6.ch021. https://doi.org/10.4018/978-1-5225-6061-6.ch021 Income Inequality in India. xlv (37), 2019. p. .
- [Kelly (2005)] As America Becomes More Diverse: The Impact of State Higher Education Inequality. National
   Center for Higher Education Management Systems (NJ1), P J Kelly . https://vtechworks.lib.vt.
   edu/handle/10919/83132 2005. November, 44.
- [Jallade ()] 'Basic education and income inequality in Brazil'. J P Jallade . 1016/0305-750X(82)90009-2. https:
   //doi.org/10 World Development 1982. 10 (3) p. .
- [Bodewig and Badiani-Magnusson] C Bodewig, C Badiani-Magnusson. Skilling Up Vietnam,
- [Ram ()] 'Can educational expansion reduce income inequality in less-developed countries?'. R Ram .
   10.1016/0272-7757(89)90006-X. https://doi.org/10.1016/0272-7757(89)90006-X Economics of Education Review 1989. 8 (2) p. .
- [Coady and Dizioli ()] D Coady, A Dizioli . Income Inequality and Education Revisited, 2017.
- [Abdullah et al. ()] 'Does education reduce income inequality? A meta-regression analysis'. A Abdullah , H
   Doucouliagos , E Manning . 10.1111/joes.12056. https://doi.org/10.1111/joes.12056 Journal of
   *Economic Surveys* 2015. 29 (2) p. .
- [Qazi et al. ()] 'Does expanding higher education reduce income inequality in emerging economy? Evidence
   from Pakistan'. W Qazi , S A Raza , S T Jawaid , M Z A Karim . 10.1080/03075079.2016. https:
   //doi.org/10.1080/03075079.2016 Studies in Higher Education 2018. 43 (2) p. .
- [Gede and Wisana (2019)] Does the number of siblings affect adult income ? An indonesian case study DOES
   THE NUMBER OF SIBLINGS AFFECT ADULT INCOME ? AN INDONESIAN CASE STUDY Dwi Wahyu
   Wijanarko, I D Gede, K Wisana . 2019. April.
- [Fields ()] Education and Income Distribution in Developing Countries: A Review of the Literature. Education
   and Income: A Background Study for World Development, G S Fields . http://digitalcommons.ilr.
   cornell.edu/cgi/viewcontent.cgi?article=1487&context=articles 1980. p. .
- [Khan et al. (2015)] 'Education and Income Inequality in Pakistan'. M Z U Khan , S Rehman , C A Rehman .
   Management and Administrative Sciences Review 2015. January. p. .
- [Rodríguez-Pose and Tselios ()] Education and Income Inequality in Turkey: Does Schooling Matter? Financial
   Theory & Practice, 32, A Rodríguez-Pose, V Tselios. 2008. p. .
- [Younglives and Org ()] Education for All in Vietnam: high enrolment, but problems of quality Young Lives
   Policy Brief 4, Younglives, Org. 2015.
- [Chowdhury and Sarkar ()] Education in Bangladesh: Changing contexts and emerging realities, R Chowdhury
   M Sarkar . 10.1007/978-981-13-0708-9\_1. https://doi.org/10.1007/978-981-13-0708-9\_1 2018.
   (Education in the Asia-Pacific Region)
- Bakar ()] 'Education Inequality in Malaysia'. R Bakar . The Journal of Human Resource and Adult Learning,
   2006. 2010. November 2006. p. .
- Ismail ()] 'Educational and Income Inequality in Malaysia'. R Ismail . 10.1108/eb018851. https://doi.org/
   10.1108/eb018851 Humanomics 2000. 16 (2) p. .
- 375 [Hendel et al. ()] 'Educational opportunity and income inequality'. I Hendel , J Shapiro , P Willen .
- 376
   10.1016/j.jpubeco.2004.11.004. https://doi.org/10.1016/j.jpubeco.2004.11.004
   Journal of Pub 

   377
   lic Economics 2005. 89 (5-6) p.
   .
- [Benjamin et al. ()] 'Growth with equity: income inequality in Vietnam'. D Benjamin , L Brandt , B Mccaig
   . 10.1007/s10888-016-9341-7. https://doi.org/10.1007/s10888-016-9341-7 Journal of Economic
   Inequality 2017. 15 (1) p. .
- [Hansen ()] 'Impact of Student Financial Aid on Access Published by : The Academy of Political Science Impact
   of Student Financial Aid on'. W L Hansen . Access 1983. 35 (2) p. .
- Breen and Chung ()] 'Income Inequality and Education'. R Breen , I Chung . 10.15195/v2.a22. https://doi.
   org/10.15195/v2.a22 Sociological Science 2015. 2 p. .
- [Asadullah and Yalonetzky ()] 'Inequality of Educational Opportunity in India: Changes Over Time and Across
   States'. M N Asadullah , G Yalonetzky . 10.1016/j.worlddev.2011.11.008. https://doi.org/10.1016/j.
- 387 worlddev.2011.11.008 World Development 2012. 40 (6) p. .

#### 15 VII. CONCLUSION AND RECOMMENDATION

- [Alcaraz ()] 'International Journal of Educational Development Beyond Financial Resources : The Role of
   Parents' Education in Predicting Children' s Educational Persistence in Mexico'. M Alcaraz . doi: 10.
   1016/j.ijedudev.2020.102188. International Journal of Educational Development 2020. April 2019. 75 p.
- 102188.
  [Quian and Smyth (ed.) ()] MEASURING REGIONAL INEQUALITY OF EDUCATION IN CHINA: WIDEN-
- ING COAST-INLAND GAP OR WIDENING RURAL-URBAN GAP?, X Quian, R Smyth. Xiaolei Qian
   and Russell Smyth (ed.) 2005.
- [Ministry of Education Government of the People's Republic of Bangladesh ()] Ministry of Education Government of the People's Republic of Bangladesh, 2010. (Education Policy)
- [Glomm and Ravikumar ()] 'Public education and income inequality'. G Glomm , B Ravikumar . S0176 2680(02)00178-7. https://doi.org/10.1016/ European Journal of Political Economy 2003. 19 (2) p.
   .
- [Begum et al. ()] 'The challenges of geographical inclusive education in rural Bangladesh'. H A Begum , R
   Perveen , E Chakma , L Dewan , R S Afroze , D Tangen . 10.1080/13603116.2018.1514729. https:
   //doi.org/10.1080/13603116.2018.1514729 International Journal of Inclusive Education 2019. 23
   (1) p. .
- 404 [Yang and Qiu ()] 'The impact of education on income inequality and intergenerational mobility'. J Yang, M Qiu
   405 . 10.1016/j.chieco.2015.12.009. https://doi.org/10.1016/j.chieco.2015.12.009 China Economic
   406 Review 2016. 37 p. .
- <sup>407</sup> [Frenette ()] Too Far To Go On ? Distance to School and University Participation Too Far To Go On ?, M
   <sup>408</sup> Frenette . 2002. Distance to School and University Participation By
- <sup>409</sup> [Psacharopoulos ()] 'Unequal access to education and income distribution -An international comparison'. G
   <sup>410</sup> Psacharopoulos . 10.1007/BF01479118. https://doi.org/10.1007/BF01479118 De Economist 1977.
   <sup>411</sup> 125 (3) p. .
- [Anderson and Eswaran ()] 'What Determines Female Autonomy? Evidence from Bangladesh'. Siwan Anderson
   , Mukesh Eswaran . Journal of Development Economics 2009. 90 (2) p. .

IDevkota and Upadhyay ()] 'What Factors Change Education Inequality in Nepal'. S C Devkota, M P Upadhyay
 . 10.1080/19452829.2015.1029882. https://doi.org/10.1080/19452829.2015.1029882 Journal of
 Human Development and Capabilities 2015. 16 (2) p. .

[Zhang and Kanbur (2003)] Working Paper SPATIAL INEQUALITY AND DEVELOPMENT, X Zhang , R
 Kanbur . 2003. November. 3 p. .