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THE RELATIONSHIP OF FOREIGN AID AND FOREIGN DIRECT INVESTMENT IN NEPAL

Abstract. The main purpose of this paper is to find out the relationship between foreign aid and foreign direct investment in case of Nepal, does foreign aid attract foreign direct investment in Nepal? In order to achieve the aim, the paper is based on external secondary data, scientific economic literature and correlation and regression analysis. The paper uses data from the year 1996 to fiscal year 2016. The study shows the perfect positive linear relationship between foreign aid and FDI. Foreign aid plays the complement role for foreign direct investment in case of Nepal. It means that foreign aid assists to increase FDI in Nepal.

Key words: foreign direct investment, foreign aid, economic growth, Nepal.

JEL: F21, F36

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1. Introduction

Inflows of capital play a vital role in the development process of any developing country. Many economists are claimed that capital is essential for economic growth. The impact of FDI on developing countries has been broadly discussed in the literature. FDI provides tangible and non-tangible benefits to ment, technology spillover, better balance of pay- tries. The purpose of these two flows are different. ments and also helps to tie to the rest of the world.

Dunning, J. H. (2000) pointed out that the attractiveness of FDI locations is determined by invest- ship between FDI and economic growth by using ment motivation, which he classified into four cate- data on 11 developing countries in East Asia and gories: market-seeking (horizontal strategy to access Latin America. He finds that FDI can be expected to the host-country domestic market), resource-seek- boost economic growth in the host country, he also ing (to access raw materials, labor force, and physical states that FDI is more likely to promote economic infrastructure resources), efficiency-seeking (vertical growth when host countries adopt liberalized trade strategy to take advantage of lower labor costs, es-regimes, improve education (and thereby human pecially in developing countries), and strategic as- capital conditions), encourage export-oriented FDI, sets-seeking (to access research and development, and maintain macro-economic stability. Borensztein innovation, and advanced technology). Least devel- et al. (1998) test the effect of foreign direct investoped countries are low income countries which does ment (FDI) on economic growth in a cross-country not have economic stability, political stability and regression framework, utilizing data on FDI flows also there is lack of physical infrastructure resources. from industrial countries to 69 developing countries,

some difficulties to attract great amount of FDI. To for the transfer of technology, contributing relatively avoid those obstacles dose foreign aid would be an- more to growth than domestic investment. Howevother determinant of FDI, which could provide the er, the higher productivity of FDI holds only when countries institution and good governance also can the host country has a minimum threshold stock of develop physical infrastructure resources of the host human capital. Thus, FDI contributes to economic countries. This study creates a hypothesis that for- growth only when a sufficient absorptive capability eign aid assist to increase FDI in the least developed of the advanced technologies is available in the host country Nepal (Figure 1).



Figure 1. Foreign Aid and FDI

Literature review

Foreign direct investment and foreign aid are two developing countries such as, capital flows, employ- main sources of capital flows to developing coun-

FDI and economic growth

Zhang (2001) empirically analyzed the relation-For this reason, least developed countries faces there result suggests that FDI is an important vehicle economy.

growth in Eurozone countries.

Foreign aid and economic growth

from the poverty to poor developing nations.

Foreign aid does have some positive impact on al., 2005]. growth, conditional on a stable macroeconomic policy environment [Durbarry, et al. 1998]. The effect of nism, Bhattarai, B. P. (2009) investigates the effective- in different countries for Nepali students. ness of aid in Nepal during the period 1983–2002, he of good policy environment.

Foreign aid and FDI

Alfaro et al. (2004) explore whether countries between Aid and FDI [Janský, 2012]. The relative with better financial systems can exploit FDI more impact of financial source such as foreign direct inefficiently. They empirically analysis the relation- vestment, aid and savings are depend on countries' ship between FDI, financial markets, and econom- income level, financial structure, and government ic growth using cross-country data between 1975 infrastructure [Kasuga, 2007]. In the Investigating of and 1995, shows that FDI alone plays an ambiguous less developed countries, whether and how foreign role in contributing to economic growth. Howev- aid facilitate FDI flows, authors found that foreign er, countries with well-developed financial markets aid in general doesn't have any significant effect on gain significantly from FDI. Durham (2004) exam- FDI [Kimura & Todo, 2010]. Using both homogeneines the effects of FDI on economic growth using ous and heterogeneous panel co-integration techdata on 80 countries from 1979 through 1998. His nigues, author examines whether foreign aid conempirical results suggest that the FDI effects on eco-tributes to attracting foreign direct investment (FDI) nomic growth are contingent on the absorptive ca- in aid receiving countries and he found that the efpacity of the host country, with particular respect to fect of foreign aid on FDI is negative [Donaubauer, financial and institutional development. Pegkas, P. 2014]. In contrast, foreign aid mitigates the risk of (2015) found the positive impact of FDI on economic FDI in the receiving countries [Asiedu, et al., 2009]. Similarly, in the empirical investigation of the effect of aid on foreign direct investment in view of the Foreign aid is mostly wasted on corrupt recipi- hypothesis that countries that receive aid also beent governments despite any good intentions from come more likely to receive FDI, authors claim that donor countries. Foreign aid has given to overcome this happens especially in cases of good governance and financial market development [Karakaplan, et

Foreign aid in Nepal

Nepal started receiving foreign aid from the beforeign aid on economic growth is positive, perma-ginning of mid twentieth century, specially, from nent, statistically significant, and sizable: raising for- 1952 after joining the Colombo plan for Cooperaeign aid by \$20 per person of the receiving country tive, Economic, and Social Development in Asia and results in a permanent increase in the growth rate of the Pacific. The sectors agriculture, transportation inreal GDP per capita by approximately 0.16 per cent frastructure and power generation absorbed major [Karakaplan, et al., 2005]. According to Ekanayake part of the assistance received in the form of grants and Dasha (2010), foreign aid has mixed effects on while the remainder was invested in other sectors economic growth in developing countries. By us- that included industry, communication, education ing a panel data set comprising of five South Asian and health. The major donors were India and USA economies, the author found positive relationship followed by China, Russia, Switzerland, Australia and between aid and economic growth [Asteriou, 2009]. New Zealand. The plan also provided scholarship for By using co-integration and error correction mecha- studying various technical and professional courses

Out of the total amount disbursed in FY 2016-17, found that foreign aid has a positive and statistically the contribution of grants was US\$ 582.39 million significant effect on per capita real GDP in the long- (41.76%), loans US\$ 548.85 million (39.36%), and run and aid effectiveness improves in the presence technical assistance US\$ 263.36 million (18.88%). The disbursement of loans and technical assistance has significantly increased as compared to the FY Foreign aid and FDI are neither substitutes nor 2015-16. The largest providers of grant disbursecomplements in world's poorer countries, further ment included the European Union, United Kingemphasizing that foreign aid flow in developing dom, USAID, the World Bank Group, ADB, India, the countries mainly in the form of supporting govern- UN Country Team, Switzerland, China and Norway ment budget, humanitarian activities and human of the amount US\$ 80.23 million, US\$ 78.88 milcapital development; it makes sense that foreign lion, US\$ 77.16 million, US\$ 59.59 million, US\$ 55.56 aid indirectly attract FDI [Kosack & Tobin, 2006]. million, US\$ 51.11 million, US\$ 47.17 million, US\$ Similarly, in the study of 180 countries from 1971 to 29.23 million, US\$ 41.24 million, US\$ 17.75 million 2007, there was no evidence of causal relationship respectively among others. The largest providers of

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loan component of disbursement were the World Bank Group and ADB of US\$ 284.54 million and US\$ 191.72 million respectively. Similarly, the largest disbursement for technical assistance was made by the UN Country Team, USAID, the United Kingdom, Germany, and Japan of US\$ 73.55 million, US\$ 56.89 million, US\$ 49.43 million, US\$ 22.85 million and US\$ 18.53 million respectively. In FY 2016-17, the top five sectors contributed approximately 41.2% of the total foreign aid disbursement, that is the education sector became the top sector receiving foreign aid of US\$ 127.24 million with 9.1% followed by local development of US\$ 123.00 million with 8.8%, housing of US\$ 112.16 million with 8.0%, drinking water of US\$ 110.1million with 7.9%, policy and strategic of FDI in Nepal from the year 2004 to 2016. US\$ 101.75 million with 7.3%, health of US\$ 89.58 million with 6.4%, urban development of US\$ 80.8 million with 5.8%, road transportation of US\$ 83.3 million with 6.0%, energy of US\$ 72.2 million with 5.2%, peace & reconstruction of US\$ 72.19 million with 5.2%, agriculture, earthquake reconstruction, others-economic, economic reform, others-social and environment, science and technology. In FY 2016-17, there was the lowest expenditure of only 30.89% at Rs. 93 billion against an allocation of Rs. 302 billion, however, in FY 2009-10 the total aid spent of 63.39% at Rs. 49.7 billion against Rs. 78.5 billion allocated. The reason of this low expenditure could be attributed to

the poor progress related to earthquake reconstruction activities¹. Mr. Jacquet stressed that countries like Nepal should leverage aid terms to be able to better mobilize domestic resources to build capacity for their long-term growth. He also stressed that one of the major ways through

which aid can improve governance is transparency. This reduces the chances of aid ineffective- regression line of the year 2004 to 2016. As R ness. Blended finance is the future and as a Least squared is 0.47 which says that 47 percent of the Developed Country, Nepal can leverage public-pri- variability in foreign aid is explained by regression vate partnership in order to expedite development. line. Correlation (R) is 0.68, which indicates mod-For that matter, MoF/IECCD is looking at ways to use erate positive linear relationship between foreign foreign aid catalytically to leverage and blend with aid and FDI. other types of finance. As of now, Nepal's debt-toly delve into, to be able to tap into the changing ar- increases FDI by 0.120 dollar in Nepal. chitecture of international aid².

Government of Nepal, Ministry of finance, Development cooperation report (2016/17), online: http://mof.gov.np/ uploads/document/file/20171231154547.pdf



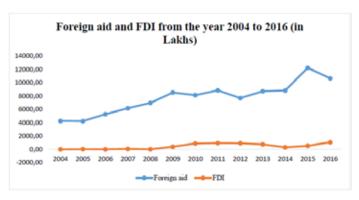


Figure 2. Foreign aid and FDI from the year 2004 to 2016 Source: The World Bank

The figure 2 shows the trend of foreign aid and

FDI inflow is very low in comparison to foreign aid in Nepal. Nepal received the highest amount of foreign aid in the year 2015 of \$12250 lakhs, it is because in the same year Nepal had faced a great disaster of earthquake. The highest FDI inflows in Nepal was in 2016 of \$1059.96 lakhs.

Figure 3. Scatter plot, correlation and regression line of the year 2004 to 2016

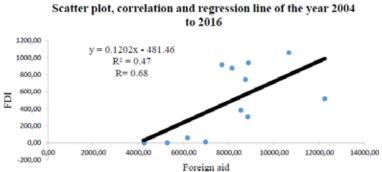


Figure 3 shows scatter plot, correlation and

The result table 1 shows that foreign aid is signif-GDP ratio is low so there is space to take on more icant predictors of foreign direct investment in Nedebt. This is an avenue that the country can definite pal. It denotes that one dollar increase in foreign aid

and Implications for Nepal (2018), online: http://www.mof.gov.np/ uploads/document/file/PROCEEDINGS%20REPORT Final 5%20Sep-

Coefficient	Estimate	Standard Error	t-value	p-value
Intercept	-481.455	313.376	-1.536	0.153
Foreign aid	0.120	0.039	3.093	0.010*

Conclusion

played a major role in attracting a great amount of the production frontier upward and ultimately conforeign aid, especially during the internal war time, tributes to a raise in efficiency and productivity. Reit was mostly stimulated donors to negligence the garding foreign direct investment, this also implies developmental needs of Nepal and aid absorption that domestic firms are learning to better combine capacity. In this paper, we investigate the relation- external technology with domestic inputs in proship between foreign aid and FDI of a least devel- duction process. oped country Nepal. From the findings in the literaggregate foreign direct investment inflows posi- plementing flows.

Table 1. Results of Regression Analysis tively induce more of domestic investment. This (Dependent Variable: FDI) is very important since as its well known that domestic investment increase the size of the capital stock, and therefore helps determine the long-run growth. Thus, we believe that foreign aid raises the local complimentary inputs quality such as education and health, while foreign direct investments The strategic location of Nepal seems to have brings advanced technology, and possibly shifts

Our results cannot reject the hypothesis that forature we found that the relationship between for- eign aid assists to increase FDI in Nepal and we thereeign aid and FDI is vague. Some authors has men- fore argue that they are complements. Furthermore tioned that foreign aid and FDI do not have any re- our findings suggest that foreign aid helps to attract lations (neither substitute nor compliment), others, FDI by developing on determinants of FDI such as on the one hand stated that foreign aid seems to improve education (human capital), infrastructure mitigate (compliment) FDI, on the other hand, de- development, trade regime, financial regime. Our scribed that foreign aid and FDI has negative effect result brings the conclusion that - aid has a positive (substitute). Another important observation is that role on FDI inflows moreover, aid and FDI are com-

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МИРОВАЯ ЭКОНОМИКА И МЕЖДУНАРОДНОЕ СОТРУДНИЧЕСТВО

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ВЗАИМОСВЯЗЬ ВНЕШНЕЙ ПОМОЩИ И ПРЯМЫХ ИНОСТРАННЫХ ИНВЕСТИЦИЙ В НЕПАЛЕ

Аннотация. Основная цель этой статьи — выяснить связь между иностранной помощью и прямыми иностранными инвестициями в случае Непала, привлекает ли иностранная помощь прямые иностранные инвестиции в Непале? Для достижения цели в основе статьи лежат внешние вторичные данные, научно-экономическая литература, а также корреляционный и регрессионный анализ. В документе используются данные с 1996 по 2016 финансовый год. Исследование показывает идеальную положительную линейную связь между иностранной помощью и ПИИ. Иностранная помощь играет дополнительную роль для прямых иностранных инвестиций в случае Непала. Это означает, что иностранная помощь способствует увеличению прямых иностранных инвестиций в Непале.

Ключевые слова: прямые иностранные инвестиции, иностранная помощь, экономический рост, Непал.

JEL: F21, F36

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