#### **TERM SHEET**

**Construction Phase Financing** 

# The Vivekananda Education Megaproject

(Secondary Schools + Skill Development )

Hybrid Scheme



The Nataraja Foundation Mumbai

# Compendium of Financing Sources:

Construction of 30,000 New "
Skills Development Centers +
Secondary Schools " under
PPP across 29 States & 7
Union Territories





Financing note submitted to
Ministry of Skills Development & Ministry of HRD, Govt. of India

12th Nov ' 2018

### **Vivekanand Education Megaproject**

CONSTRUCTION PHASE (2019 – 2028)

### **Executive Summary --- > Construction Phase Financing**



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Financial Options For Raising Rs. **100.55** Lakh Crores over 10 years ... from **12** different sources Actual amount required is Rs. **14.95** Lakh Crores over a period of 10 years

#### Rs / US \$ Exchange Rate ( 12th Nov ' 2018 ) : 72.9078 **Government of India** A. Non Tax Based Financing Ministry of HRD Ministry of Finance **Parliament** India 10 year Bond Rate (12th Nov 2018) : 7.8 % **Ministry of Skills Development** 1. 3 % of Forex Reserves currently @ \$ 393 Billion : Repo Rate for RBI funds : 6.5 % **Rs 72.000 Crores** Consolidated Fund of India **Indian & International** 2. Bidding Rounds: Funds raised via bidding rounds Banks for the Vivekanand School in a cloud programme: C. Innovative New Fee / Tax based sources Rs 4.739 Crores Annuities / Receivables can (Annuities) with Securitization option be securitized Annuities with a NPV 3A. Un-Utilized Funds with Various Ministries at the end @ 7.8 % Interest Rate to of Rs 4.4 Lakh Grores of each financial year: Rs 2,10,000 Crores raise Rs 4.4 Lakh Crores 10. Quantized TOBIN Tax on Forex upfront 3B. Un-Utilized Development Aid (World Bank, ADB etc): Trns: Rs 1,49,086 Crores **Education Megaproject Rs 35.000 Crores** or Rs 22,018 Crores per year Escrow A/C 11. New Graduate Tax on Employer: 4. Coordinated CSR Funding **Rs 1.72.661 Crores** (Discounted): Rs 18,417 Crores Rs 5.70 Lakh Crores **Education Megaproject Fund** or Rs 25,500 Crores / year 5. Equity Infusion by 30,000 Private Parties (PPP): Rs 14.95 Lakh Crores Required **Education Megaproject Fund Act Rs 73.500 Crores** 12. Securitization of Existing Flows 6. Calibrated Dis-Investment in PSUs A. Education Cess @ 3 % 7.3 % of Market Cap: Rs 72,908 Crores **ISIC Act** Rs 44,011 Crores (Total) **Indian Social Infrastructure Corporation** or Rs 6,500 Crores / Year 11A. Un-Utilized Secondary & Higher Education Cess (ISIC) (SHEC) Cess: Rs 83,497 Crores B. 20 % of NREGA Funds Rs 74,481 Crores (Total) **B. Large Urban Equity Withdrawal Options** or Rs 11,000 Crores / Year **Build 30,000** SOURCES CAPITAL 7. PSU Owned Land Bank in Metro **Secondary Schools** Cities (UEW): Rs 2.916 Lakh Crores and Teacher 8. New Enhanced Fee for Non Agricultural Sharing Land Conversion: Rs 21.872 Lakh Crores Infrastructure with **National Highway Authority of India** Rs 90.4 Lakh Crores another 6.21.805 9. New Enhanced Fee For Re-Zoning (NHAI) LOOKALIKE STRUCTURE **Existing Govt.** Urban Land: Rs 65.617 Lakh Crores

Education Megaproject Uses Familiar NHAI Structure in Plug & Play Mode to raise Rs 14.95 Lakh Crores for Expansion of The Secondary School System in India

Schools

### The Vivekananda Education Megaproject

### **Compendium of Financing Sources**

#### TERM SHEET

**Construction Phase Financing** 

for

Construction of 30,000 New Skill Development Centres & Secondary Schools under PPP across 29 States & 7 Union Territories





#### Note:

This Term Sheet specifies the possible sources of Finance for Construction of 30,000 New Skill Development Centres & Secondary Schools \* under a PPP Framework across 29 States & 7 Union Territories. The note is intended to be a definitive source of information regarding non - conventional / non budgetary finance for nationwide Mass Education & Healthcare projects. The 12 non - conventional sources put together represent nearly Rs 100.55 Lakh Crores (if we Include accumulated SHEC cess of Rs 88,000 Crores ) in financing which can be made available to Central, State & Local governments over the next 10 – 15 years for large Education & Healthcare schemes. The utilization of this massive resource could lay the foundation for India to enter the league of Developed Nations by 2028. This document ( Rev 00 ) is protected under the Indian Copyright Act and has been prepared by the Nataraja Foundation ( Mumbai ) for use by Ministry of Finance, Govt. of India.

Rs / US \$ Exchange Rate ( 12th Nov ' 2018 ) : 72.9078

\* Including the associated Teacher Sharing infrastructure

SI. No.	Source Description	Estimate of Total Possible Corpus (Crores of Rupees)	Amount Available Each Year (Crores of Rupees)	Remarks / Critical Assumptions
I Phase I Fi	nancing ( 2019 - 2024 )			
1.	Three Percent ( 3 % ) of Indian Foreign Exchange Reserves As Long Term Soft Loan	72,000	14,400	The Deepak Parekh Committee, in 2011, had recommended that an amount of US \$ 2 – 3 Billion out of India's Forex Reserves (\$ 270 Billion at that time) could be lent by the RBI to an Infrastructure Debt Fund.
	( Currently Approx. US \$ 393.13 Billion as of 02 <sup>nd</sup> Nov ' 2018)	3 % of total forex reserves will be deployed for the construction of New Teacher Training Institutes and Secondary Schools in rural areas over the first five years of the megaprojects construction phase.	% floating premium = 8 %	Now since the Foreign Exchange reserves have increased to US \$ 393 Billion (Nov' 2018), a much larger amount is possible as a Soft Loan.  This amount is available for immediate deployment. India's foreign exchange reserves are currently parked in Govt. securities issued by central banks around the world (mainly the US Fed). The return on this US \$ 393 billion forex reserve is around 2 - 3 percent each

The Vivekanand Secondary Education Megaproject will provide the Largest Possible return in terms of Social Impact for an investment using India's Foreign Reserves.

We are currently parking this money in US Govt. Treasury bonds and similar securities where it is earning a 2 % to 3 % return. Instead if we use this money to improve Teacher Quality in India, the potential Financial & Social return is Rs 2500 for every Rupee spent over the following 40 year period ... according to a Stanford University study.

#### Returning Capital + Interest :

As the Indian Economy Triples in size from a GDP size of US \$ 2.5 Trillion in 2018 ... to a US \$ 7.5 Trillion economy by 2032, the entire soft loan of Rs 72,000 crores (US \$ 9.875 Billion) can be easily returned with Interest to the RBI. In this specific case, the project documents mandate a Return or take out of RBI's soft loan using the cash paid by Equity investors in the Megaprojects bidding rounds for the 30,000 New Secondary Schools.

The Megaprojects "Teacher Centric "scheme is designed to attract the most qualified people to careers in education, thereby setting right a big Imbalance in Indian society. Investing in our own Teachers and Children is possibly the Biggest and Most Productive investment any Government can make.

oreign exchange reserves are around the world (mainly the is around 2 - 3 percent each year which is <u>very low</u> in opportunity cost terms.

By investing just a small percentage (3 - 4%) of this money in Teacher Training and in the construction of New Secondary Schools and Skills development centres (India is short of over **6,21,805** secondary schools ), the Government of India will, over the next 40 years. earn Rs. 2500 Crores for every Rs 1 Crore invested according to a recent Stanford University study by Prof. Eric A. Hanushek.

According to the Stanford paper, a sum of 1 Million US dollars invested on a teacher centric education model, yields a Social and Economic impact of US \$ 2.5 Billion over the next 40 years working lives of the students.

The Vivekananda Education Megaproject is therefore likely to provide the largest possible return on India's Forex Reserves.

Rs / US \$ Exchange Rate ( 12<sup>th</sup> Nov ' 2018 ) : 72.9078



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SI. No.	Source Description	Estimate of Total Possible Corpus (Crores of Rupees)	Amount Available Each Year (Crores of Rupees)	Remarks / Critical Assumptions
2.	Proceeds of Bidding Rounds for a License to provide 4G / 5G Data Connectivity & Content to 6,21,805 Schools under the Vivekananda School in a cloud programme	4,739	4,739  Entire Capital will be deployed immediately in the first year	Raising money from Vendor Bidding rounds.  The Govt. can charge Vendors a fee for the right of access to schools across India.  - Under the scheme the Govt of India under a central assistance plan to states will provide the entire Capex for setting up the IT Infrastructure and School Hall / Building at 6,21,805 locations across 29 states and 7 union territories.  - In addition, the central Govt. will also provide Operations financing support of Rs 62,526 / month per school for all schools covered by the Vivekanand School in a cloud.  The monthly Opex charges consist of:
		INTER ((()))	RNET	1. Video Conferencing App Rental charges per month 2. Data charges per month from Telecom carrier (Unlimited data) 3. Salaries for two teachers / instructors @ Rs 20,000 per month 40,000 4. Monthly Maintenance/IT support@ 12.5 % of Capex (4,34,500) ** 5. Management Incentive @ Rs 10,000 / month *** 10,000 6. Total ballpark Opex 61,026
		MAIN BRANCH  LOCAL  CO-ORDINATOR  CAMERA	REMOTE BRANCH (VIRTUAL CLASSROOM)  DISPLAY DEVICE STUDENTS  STUDENTS	On a yearly basis therefore each of the schools represents a minimum revenue of Rs 7,32,312 Excluding externalities (additional revenue opportunities) such as Stationery and school consumables.  The Govt. of India will be guaranteeing a pure profit of Rs 10,000 per month per school or Rs 621.8 crores of pure profit in the first year and escalated at 3 % each year to the (Telecom Company + EPC Contractor + School Management Company) Consortium for Building and Operating the Vivekanand Schools in a cloud.
			SROOM SYSTEM any where at any time at any device	Management incentive of Rs 10,000 / month per school will be paid to the ( Telecom operator + EPC Contractor + School Management Company ) Consortium to Operate the

This guaranteed Management incentive of Rs 120,000 per year per school will form the basis of the Bid which will be securitized and paid upfront by the Contractor to win the right to run the network across 6,21,805 schools.

School in the Cloud. This and other charges will be increased by 3 % each year to account

for inflation.

Rs / US \$ Exchange Rate ( 12<sup>th</sup> Nov ' 2018 ) : 72.9078

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**Remarks / Critical Assumptions** 

SI. No.	Source Description	Estimate of Total Possible Corpus (Crores of Rupees)	Amount Available Each Year (Crores of Rupees)
3A.	Un-used Funds with various Ministries at the end of each financial year	2,10,000	70,000
	Source may potentially be used only for the first three years		Capital will be deployed in first three years of the projects construction phase after which the Ministries are likely to turn more efficient at
	In addition to the un-utilized funds with various there are also un-utilized funds that have been NGOs by the previous UPA Govt. According Crores was given to various NGO's undeschemes, bypassing the State Governments utilized with NGO's during the tenure of the previous NGO's during the tenure of the NGO's during the tenure of the NGO's during the	en disbursed to various to the CAG, Rs 51,000 er centrally sponsored and has been lying un-revious Govt.	identifying and executing various schemes.
	The whereabouts of this missing money need and if found, it needs to used in Social Project		
3B.	Committed yet Un-used world Bank / ADB aid (CAG Report - 2011)	35,000	<b>7000</b> Capital will be deployed in first five years

The CAG report (2011) has outlined 16 sectors which sit on un-utilized external assistance. The larger sectors, among these include:

1. Urban Development : Rs. 23,883 crores

2. Agriculture and Rural development : Rs. 9,557 crores

3. Water Supply and Sanitation : Rs. 8,995 crores 4. Power : Rs. 7,959 crores

5. Roads : Rs. 11,617 crores

Ministries related to education.

Appropriate clearance to be taken from ADB / WB before re-allocation of funds to schools under "Related " heads

Besides, sectors like railways, health, environment and forestry, atomic energy and rural development too had substantial amounts of unutilized foreign assistance. As these are **2011** numbers ... we have reduced the potential sums available under this mechanism from US \$ **15.56** Billion ... to US \$ **5** Billion in 2018.

A massive amount of Money committed in the Budget to various ministries remains un-utilized each year. It is being assumed here that Approx. **Rs 70,000** Crores will remain un-utilized by various ministries (Excluding Defence) each year. This money can be used to build Secondary Schools as Education is linked to almost every ministry in some way.

Un-Utilized funds Related to Skills Dev & Education	<u>Spent</u>	<u>Unspen</u>
Skill development & Entrepreneurship	33 %	67 %
2. Minority Affairs	38 %	62 %
3. Funds meant for SCs & STs ( Various depts )	42 %	58 %
4. Housing and Urban poverty alleviation	18 %	82 %
5. Heavy Industries and Public Enterprises	24 %	76 %
6. Labour and Employment	29 %	71 %
7. Consumer affairs, food and public distribution	44 %	56 %
Unrelated Ministries		
8. Defence	24 %	76 %
9. Overseas Indian Affairs	6 %	94 %
10. Tourism	40 %	60 %
11. External Affairs	42 %	58 %

In a report tabled in parliament on the 18th of March 2011, the CAG had said that the total committed yet un-utilized external assistance to India was of the order of Rs 1,13,444 crore ( US \$ 15.56 Billion ).

This money had been committed by the World Bank / ADB and certain bilateral funds to development projects in India. The March '2011 CAG report had said that <u>inadequate planning</u> resulted in avoidable expenditure in the form of <u>commitment charges</u> amounting to over Rs **86** crore each year.

This essentially means that the Indian Govt. (in 2011), did not have any identified projects to use this money and was in fact paying a <u>cash penalty</u> for non-utilization of funds.

The Vivekananda Education Megaproject will construct **30,000** New Skills development centers & Secondary Schools across 29 States and 7 Union Territories. Since the project has many facets ( Education, Women & Child Development, Rural Development, Poverty Alleviation in Urban Areas, Environment and Water & Sanitation ), it will become eligible to utilize the money provided by Multilateral Investment Institutions under almost any vertical for which finance is provided by the multilateral development institutions.

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SI. No.	Source Description	Estimate of Total Possible Corpus (Crores of Rupees)	Amount Available Each Year (Crores of Rupees)	Remarks / Critical Assumptions
4.	spent cash	s expected to accrue under Sec 1	expected can be dia today, has the potential to 135 of the Companies Act 2013,	The top 100 companies in India spent Approx. Rs <b>6800</b> Crores on CSR in fiscal 2017.  On a realistic basis, assuming that 60 % of this Rs <b>6800</b> crores will be spent by companies through their own foundations / trusts, the balance 40 % or Rs <b>2720</b> Crores could be targeted and channeled by the Govt. into specific projects and monitored.  The Vivekanand Education Megaproject with its diversified areas ( <u>Education</u> , <u>Women and Child Development</u> , <u>Rural Development</u> , <u>Poverty Alleviation in Urban Areas</u> , <u>Water and Sanitation / Swachh Bharat</u> and even <u>Environment &amp; Forests</u> ) presents a substantially wide range of CSR options. This provides Corporates with a range of project areas within a single umbrella ( Education Megaproject ).  We have assumed here that Rs <b>2720</b> Crores is available each year starting in 2019. If this yearly cash flow is securitized over a 10 year period @ 7.8 % ( 10 year bond rate ), it will be possible to raise Rs <b>18,417</b> crores right now.
5.	Private Promoter Funds For 30,000 PPP Schools @ of Rs 2.0 Crores per school for day schools and Rs 5.0 Crores per school for fully residential schools  This money will be used to Pay back the Soft loan taken from the RBI ( drawn from Forex Reserves ) as mentioned in source 1.  Essentially, this money will be used to finance the taking out / paying back of the RBI soft loan	73,500  Total Collection = Rs 73,500 Crore	Rs 73,500 Crores will be collected (conservative basis) as Equity from the promoters of the 30,000 schools.  This is a conservative estimate as the Equity for Private Non Religious Trusts and Corporates will be higher.  It is assumed that this equity will be collected over a ten year period.	This will essentially be the Equity infusion by private teacher and promoter groups in the 25,500 day schools and 4500 fully residential schools being set up under the Vivekanand Education Megaproject  Groups of 5 - 10 Teachers will be encouraged to set up their own schools with private investor / scheduled bank backing. The Megaproject has been specifically structured to allow large number of qualified teacher groups ( Teachers possessing graduate degrees & above ) to set up their own schools with minimal project equity / cash infusion.  This money will be collected from the winners of the bids in the bidding rounds. It will be paid upfront to the Govt.  No Religious institution will be allowed in the bidding rounds. Private Trusts / Corporate groups will be allowed and so will NGO's but under no circumstances will any single religion be promoted to the exclusion of other faiths.



SI. No.	Source Description	Estimate of Total Possible Corpus	Amount Available Each Year	Remarks / Critical Assumptions
		(Crores of Rupees)	(Crores of Rupees)	
			For other promoter groups Equity amount will be more	Any school promoter group (among the bidders) found to be fronting for any religious group will be disqualified instantly. No subsequent transfer to a religious institution / community will be permitted. It subsequent to winning the bids any group is found promoting a particular religion, their concession to build and run the schools will be cancelled forthwith.  All religions will be taught to the students in accordance with <a href="Swami Vivekananda's">Swami Vivekananda's</a> broad and inclusive philosophy, under electives that students can take as per their choice.  The Equity infusion for NGO's, High net worth individuals and Corporates wanting to set up schools will be higher. <a href="However Teacher groups will be allowed to bid for schools by bringing in only rupees 2">Forces as equity</a> . The Balance Rs 26.6 Crores (for day schools with full teacher accommodation) and Rs 70.74 Crores (for fully residential schools) will be provided from within the Megaproject's innovative financial structure (for teacher promoted schools). This kind of structure will allow attractive Equity IRR's for promoters of Schools, while Govt. retains ownership of projects and car change school managements if they do not perform.  The bidding rounds and collection of project equity will be across 29 states and 7 union territories of the union of India.
6.	Calibrated dis-investment in PSU's 6.08 % of a total PSU market capitalization of US \$ 164 Billion (only listed PSU's considered)	72,908	7290.8	All Govt. of India listed public sector undertakings including the 25 PSU Banks and their subsidiaries put together account for approx. <b>7.3</b> % of the total market capitalization of US \$ <b>2.251</b> Trillion of the Mumbai Stock Exchange ( 31 <sup>st</sup> Aug 2018 )  The 86 listed PSUs, of a total of 285 central PSUs therefore have a combined Market Capitalization of Approx. <b>164</b> Billion US Dollars.  The Vivekanand Education Megaproject is looking to utilize this massive corpus / resource in an economically sustainable manner:
	Information Source for PSU valuations : http://www.bsepsu.com/mkt_capt.asp			1. By Selling 6.08 % of the basket ( US \$ 10 Billion ) over 10 years 2. By using this massive corpus as collateral for loans so as to reduce the interest rate on any loans taken  National Investment Fund ( Use Existing Provision within Govt. )  There is already a provision of a National Investment Fund ( which already exists within the Ministry of Finance ) and has already been structured since 2005 to keep PSU disinvestment proceeds separate from the Consolidated Fund of India for investment in Education, Health and Employment Generation projects.



SI. No.	Source Description	Estimate of Total Possible Corpus (Crores of Rupees)	Amount Available Each Year (Crores of Rupees)	Remarks / Critical Assumptions
	All PSU sha Purpose Vehi India. This SI Guarantees	nares as a credit enhancement to ares can be transferred to a cle (SPV) wholly owned by the PV can then be used for providing for Large Infrastructure Projects at Enhancement and helping to anterest rate.	Special Govt of ng Loan s to	Possible Comfort To Lenders ( if required )  PSU Shares if bundled together in a special structure can serve as a very useful resource to bring down the interest rate of Loans taken on Large Infrastructure projects. Bundling of PSU stocks and using them as collateral for loans will provide comfort to lenders and save interest costs for the Govt. of India. This will essentially be equivalent to a Sovereign Guarantee without calling it as such.

Rs / US \$ Exchange Rate ( 12th Nov ' 2018 ) : 72.9078



Remarks / Critical Assumptions

SI. No.	Source Description	Estimate of Total Possible Corpus	Amount Available Each Year
		(Crores of Rupees)	(Crores of Rupees)
7.	Potential Urban Equity Withdrawal from PSU Land Banks in Metro Cities	2,91,631	58,326
	( Mumbai, New Delhi, Chennai & Kolkata ).	( US \$ 40 Billion )	( US \$ 8 Billion )
	In Addition PSUs own large tracts of land in cities like Bangalore, Pune, Hyderabad etc.		
		We are assuming that Rs. 58,	326 crores or US \$ 8 Billion will

TIMES **State revives Bandra govt** colony redevelopment plan Outlines ₹70,000Cr Benefit For Govt, 30,000 crore

The Landmark L & T Project Proposal to the Govt. of Maharashtra ... Just 93 Acres will release Rs 70,000 Crores ... in Free Cash

become available each year, starting in 2020-21.

It is proposed that this money be withdrawn in 5 yearly installments (2021 to 2026).

The sums so raised from the Shared Selling process need to be immediately moved to a Secure Escrow Account to finance mass Education projects.

#### **Action Item for Ministry of Urban Development**

As the sums of money that will be realized under this Urban Equity Withdrawal plan are huge, Ministry of Urban Development needs to issue a detailed note on procedure to be followed so that money is released from the Secure Escrow Account only after project milestones are achieved.

The money should preferably be released under a high court monitored process to prevent Scams / Leakage as has happened in a north Indian state where large sums were reportedly withdrawn after they were raised under a Securitization Transaction ".

After this withdrawal, there was no money left for the next State Govt, when it wanted to execute projects as certain revenue streams were pledged under the securitization facility by the previous government to the banks and could not be used to fund new projects.

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Central and State Government owned Public Sector Undertakings (PSUs) own very valuable land in cities like Mumbai, Delhi etc. The total value of Land Banks with the PSUs is easily of the order of Rs. 12 Lakh Crores or US \$ 169.57 Billion.

Govt. could maximize its earnings by raising FSI's on this land before selling it. It is proposed to cherry pick 3000 acres out of a total of 30,000 acres of PSU owned land for this purpose.

The Largest land holdings outside of the railways are available with the Port Trust Of India which has over 50,000 Acres of Land, some of which is in large Urban Centers. The Railways also has approximately 10,000 Acres in cities and towns across India.

Shared Selling: It is proposed to raise the FSI on this 3000 Acres of land from current levels of 1.5...to between 6 and 9 before putting it on the market. 50 % of the money realized from the sale can be used to finance large public education and healthcare projects after paying the initial 50 % to the PSU.

Even after the shared sale of this 3,000 acres for financing large national Education and Healthcare schemes, another 27,000 acres of prime land will still remain with Central & State PSU's.

Of the balance 27,000 acres, another 10,000 acres can be used for earning annual lease rentals. This will provide a fixed income for Central / State governments, thereby helping them pay for the operations costs of state education and healthcare schemes, a majority of which will be in rural areas in the concerned states.

The Designer of the Education Megaproject met Dr. Vijay Kelkar in 2010 and handed over to him a database of Land held by PSUs in Metros across India, together with their valuation. The idea of enhancing the FSI on land parcels and then selling them with some of the proceeds going to the PSU's was also discussed with him. Some of this was later included in the Kelkar Committee Report on fiscal consolidation, as the main source of Funds to help bridge the fiscal deficit.

However its initial purpose as conveyed to Dr. Kelkar in 2010 was to finance the setting up of 30,000 New Secondary Schools across India.

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SI. No.	Source Description	Estimate of Total Possible Corpus (Crores of Rupees)	Amount Available Each Year (Crores of Rupees)	Remarks / Critical Assumptions
8.	New Enhanced Fee for Conversion of Agricultural Land to Non Agricultural (NA) Land at periphery of cities.  We are assuming that Rs 2,18,723 crores / year of when the necessary legislative / legal and administrates.			Land Conversion is a <u>very large potential source of revenue</u> for state & municipal governments which is currently being ignored.  Land is a State subject and State Governments usually charge between <b>5</b> % and <b>9</b> % of the existing basic value of the agricultural land as a conversion fee or conversion tax ( as in the case of Andhra Pradesh).  This results in a <u>huge loss of potential revenue</u> to the State & Municipal Governments as the
	The sums so raised from the process need to be in Education, Public Healthcare & Urban Development In India the "Urban Equity Withdrawal "concept revenue for the Govt while giving a substantial incen	can be used by intelligently dra	afting new legislation to capture	conversion fee of <b>9</b> % is applied to the value of <u>agricultural</u> land.  Actually, maximum appreciation in the value of land happens only after its conversion to " <u>Non Agricultural</u> " status resulting is massive revenue loss to Govt.  It has been estimated ( <b>by others</b> ) that the potential income for State / Municipal governments from a 10 % conversion fee (levied on land after conversion to NA) could be of the order of US \$ <b>2 - 3</b> Trillion over the next 20 years.
	Action Item for Ministry of Urban Development  As the sums of money that will be realized under Development needs to issue a detailed note on processory Account only after project milestones are actions.	edure to be followed so that mo	The Nataraja Foundation's Design Lab however takes a <u>more conservative</u> view and estimates potential State / Municipal Govt. earnings from levying the Land conversion <u>fee on Non Agricultural land</u> (i.e. after its conversion ) at Rs. <b>21.87</b> Lakh crores across 29 states and 7 union territories over the next 10 years (i.e. Rs <b>43.74</b> Lakh crores or US \$ 600 Billion over the next 20 years).	
	A small amount of these revenue streams can also that is mapped to the securitization transaction.	be securitized with the funds go	This value needs to be determined when this land is sold for the first time under its Non - Agricultural status and taxed on the basis of the proceeds received by the seller. Once the sale takes place, the original conversion fee charged on the value of the Agricultural land can be reimbursed.	
	The money in the Escrow Accounts should preferable Scams / Leakage as has happened in a north India were raised under a "Securitization Transaction".  After this withdrawal there was no money left for the revenue streams were pledged under the securitization be used to fund new projects.	en state where large sums were enext State Govt. when it wante	The Design Lab recommends that this money be used for the financing of large Education & Healthcare schemes & Smart City facilities. Executing on this idea could lead to India entering the league of developed nations within the next 10-15 years. The good way to do this is by deploying a small part of this massive amount of capital in capacity building projects like the Vivekananda Education Megaproject and its extensive Skills development programme.	

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Mumbai

Source Description	Estimate of Total Possible Corpus (Crores of Rupees)	Amount Available Each Year (Crores of Rupees)	Remarks / Critical Assumption
New Enhanced Fee for Re-Zoning Urban Land for Development of Smart Financial Centers  We are assuming that Rs 6.56 Lakh Crores or US each year, starting in 2020 - 21 when the necess put in place at the State Govt. and Municipal levels. The sums so raised from the process need to be finance Mass Education, Public Healthcare & Urban In India the "Urban Equity Withdrawal "concept capture revenue for the Govt while giving a substated as the sums of money that will be realized under Urban Development needs to issue a detailed released from the Secure Escrow Account only after the Secure Escrow Account only after the Secure Security and the Security and the securitization of the Secure Security and the securitization of the Secure Security and the Security and the Security After this withdrawal there was no money left for the securitin revenue streams were pledged under the banks and could not be used to fund new projection.	sary legislative / legal and admiss.  be immediately moved to a Section Development / Smart City process and Development / Smart City process are used by intelligently drantial incentive to private owners this Urban Equity Withdrawal plante on procedure to be follower project milestones are achieved also be securitized with the function transaction.  Tably be released under a high of a north Indian state where large tization Transaction ".  The next State Govt. when it was the securitization facility by the sects.	eure Escrow Account to ojects.  afting new legislation to of land.  an are huge, Ministry of wed so that money is ed.  ands going into another court monitored process e sums were reportedly  anted to execute projects previous government to	India is set to see massive changes in the Urban Landscape over the next 20 years as 400 Milli people across the country migrate from rural to urban areas.  Re-Zoning of our cities and the creation of Smart Financial Centres present state governments a municipal corporations in 600 districts with a huge, Once in a Century Opportunity to re-invent the urb landscape and at the same time raise an almost unlimited amount of capital to finance the construction of towns and cities across India.  The Nataraja Foundation's Design Lab proposes that a detailed Urban Planning Exercise be carried of in over 600 district headquarters and in each surburb of our Metro Cities. In this exercise certain are in each suburb (within metros) and in each district, will be designated as New Commercial / Sm. Financial centers by re-zoning them and increasing their FSI from 1.5 – 4.0 currently to between 8 – 1  Proposed Local Govt. Scheme  Citizens / Owners of these properties could receive 70 % of the increased valuation proceeds and to State / Municipal Governments will collect 30 % in cash once the properties are sold to new buyers re-developed by the original owner and sold to buyers.  The government share ( 30 % of the sales proceeds ) will be used to finance large Education Healthcare schemes and improve the city's infrastructure. This Fee based measure has the potential raise approximately Rs 65.61 Lakh crores or US \$ 900 Billion across 600 Indian cities ( conservati estimate ) over the next 10 – 15 years.  Big Opportunity for Indian / Foreign Urban Planners  Specific areas will be selected for Re-Zoning and Increasing FSI after a 100 year, detailed perspecting in the properties of the exercise will be to turn our citiento smart cities through excellent planning and by reducing Transportation load.

SI. No.	Source Description	Estimate of Total Possible Corpus (Crores of Rupees)	Amount Available Each Year (Crores of Rupees)	Remarks / Critical Assumptions
		(Crores or Rupees)	(Crores of Rupees)	
N	Continued  New Enhanced Fee for Re-Zoning Urban Land for Development of Smart Financial Centers			Big Opportunity (Contd.)  As India has a <u>severe shortage of town planners</u> currently, it will be necessary to bring in sophisticated town planning skills from around the world. This will ensure that Indian cities leapfrog development cycles and deploy the latest in town planning practices.  The net cost of using International talent in planning our cities will be just 2 % – 3 % of Project cost. It is therefore far more economical to use the <u>best town planning talent from abroad</u> .
	Creating 60 Million new Jobs in Urban Areas by 2025  It is critical that all State Legislatures pass the 74 <sup>th</sup> Amendment to the constitution before implementing this scheme.  Passing of this amendment will lead to the shutting down of illegal. State Govt. Parastatials such as MMRDA (in Mumbai) and DDA (in New Delhi) which are working against the constitution of India. It is critical that MMRDA and DDA be shut down / converted to State PSU's and be made to compete with private companies to provide services to citizens. Their current "Development Authority" status is simultaneous with their "Project Promoter" status. This creates very serious conflict of interest issues and serious delays in project implementation (It takes 5 years to start up even minor projects in Mumbai). After shutting these organizations down / converting them to state PSU's, The "Development Authority" role should be returned to the Municipal Corporations which should have a directly elected and accountable mayor.  The existence of MMRDA and DDA have prevented India from producing the kind of political leadership that cities such as Paris (François Mitterrand), London (Boris Johnson) and New York (Michael Bloomberg) have produced.  Shutting down MMRDA and DDA and a mere passing of the 74 <sup>th</sup> Amendment to the constitution will result in the creation of nearly 60 million new jobs across India as Urban development projects are speeded up tremendously.  MMRDA and DDA and the bureaucrats within them are preventing 60 million new jobs from being created in India. Their social & economic cost is therefore extreme and they need to be shut down ASAP.			



SI. No.	Source Description	Estimate of Total Possible Corpus (Crores of Rupees)	Amount Available Each Year (Crores of Rupees)	Remarks / Critical Assumption
This s	Il Of Financing Plan Securitization of New Tax assection proposes schemes to raise financing ative New Taxes which are very low in terms or ritized with a group of domestic & international	for the Vivekanand Seconda of percentage tax that is to b	oe levied. The yearly collect	ions / expected cash flow streams will be
10.	Levy of 0.02 % Quantized Tobin Tax on Forex Transactions	Under Securitization Facility  This amount of Rs 1.49 Lakh crores or US \$ 20.44 Billion can be raised immediately if the yearly annuity of Rs 22,018 crores or US \$ 3.02 Billion is Securitized for 10 years at a discount rate of 7.8 % ( Rate of 10 year GOI Bond ) . A group of national / foreign banks can be brought in to execute this transaction.	As an interim measure, Govt. of India could add a Surcharge on customs duty to mimic the Tobin Tax.  This will make Tax administration easier.	Data collected at the end of 2016 indicates that the average daily Foreign Exchange trading volume India was worth US \$ 58 Billion, on a conservative basis, in that year. Total forex trade in India was therefore 58 X 261 working days = 15.138 Trillion.  Former RBI Governor Dr. D Subbarao had in Dec ' 2009 hinted at the need for possible polic measures, including a Tobin Tax to discourage round tripping in the Indian Rupee which could lead rupee appreciation, resulting in Indian exporters being rendered un-competitive in the Internation markets.  It is therefore proposed to have a 0.02 % Tobin Tax ( 0.0002 ) on Forex transactions which will raise U \$ 3.02 Billion or Rs 22,018 crores each year. If these cash flows are securitized for 10 years are discounted at 7.8 %, the new upfront capital available will be US \$ 20.44 Billion. This money could be very useful in the construction of additional Secondary Education & Skills development facilities across 29 states and 7 union territories.  The Tobin Tax is a very low tax which besides stabilizing the Indian rupee ( as it moves towards for convertibility on the capital account ) will also simultaneously help raise long term financing for soci welfare schemes in Education & Healthcare. This will bring long term benefits for the Indian economy. Given that India is likely to be amongst the fastest growing markets in the world over the next decad we do not expect business to move away from India due to the imposition of a Tobin tax. Since 90 % the worlds forex transactions are cleared in just a few financial centers globally, it will not be difficult impose this tax. Finally, in our calculations we have assumed that there are 261 trading days each year.  The imposition of the Tobin tax has also been considered at the G20 Meeting in 2009.



SI. No.	Source Description	Estimate of Total Possible Corpus	Amount Available Each Year	Remarks / Critical Assumptions
		(Crores of Rupees)	(Crores of Rupees)	
11.	New Innovative Graduate Tax Levy  Suggestion by NV Varghese (Reforming Indian Education – 1991)	1,72,661 Under Securitization Facility	25,500	This is a New innovative tax levy in accordance with a suggestion of NV Varghese (Reforming Inc Education - 1991) who proposed the levy of a Graduate Tax on Private Commercial organization who employ India's scarce resource of <b>68</b> Million graduates on whom Govt. of India has, over the 40 - 50 years spent a lot of Money.  We estimate that this graduate tax will raise Rs <b>25,500</b> crores or US \$ <b>3.497</b> Billion each year for government to plough back into Education.
		This amount of Rs 1.726 Lakh crores or US \$ 23.68 Billion can be raised immediately if the yearly " identified " cash flow stream is Securitized for 10 years at a discount rate of 7.8 %.		The Justification for this Tax Levy comes from the fact that commercial organizations employing India's limited number of graduates are taking full advantage of the increased productivity of these people without ploughing anything back into the system. For example it costs Govt. of India Rs 30 Lakhs to produce one IIT Graduate and another Rs 50 lakhs to produce one IIM Graduate.  The Graduate Tax could potentially collect Approx. Rs 18,209 crores from the Organized Sector and another Rs 7,291 crores from the unorganized sector each year.
	Assumptions:  We have assumed that the 3 % of CTC levy will be Rs 2.5 Lakhs each year on average from the Employee will still pay this tax shortage of qualified people in India. We believe employees as they will be competing with each oth scarce resource.	oyer who is bearing this Tax.  and not pass it on to their emple that organizations will not be	Currently a <u>Professional Tax</u> is collected from the employee and it completely leaves the Employer out of the tax net whereas it is the Employer who is making a huge gain on an asset whose preparation is being financed by the Government. Employers need to be taxed because they are getting considerable productivity from these <u>ready made assets</u> without spending a single paisa on their education.  It is being assumed here that the Rs <b>25,500</b> Crores to be collected each year represents just <u>half of the true potential</u> of this levy as a funding source.	
	It needs to be noted here that 100 % of this Grasecondary Schools as there is a massive shortage Calculation = (68 Million X 0.03 X 2,50,000 (7 Employers)	of over 4 Lakh Secondary School	ols in the country.	A similar tax needs to be levied on people immigrating abroad after completing their education at the expense of the Indian Taxpayer. The tax rate on such individuals needs to be higher and this needs to be levied at the time they seek clearances to immigrate abroad.



SI. No.	Source Description	Estimate of Total Possible Corpus	Amount Available Each Year	Remarks / Critical Assumptions
		(Crores of Rupees)	(Crores of Rupees)	
PART I	III Of Financing Plan Re-Allocation & Securitizati	on of Existing Budgetary Prov	isions(2019 - 2028)	This amount does NOT include the Rs 83,497 crores of accumulated SHEC cess
	section proposes the re-allocation of certain alrests & Secondary Schools.	ady existing taxation provision	them in the construction of New Skills development	
12.				
A.	Securitization of the existing 3 % Education Cess after moving it to a special Skills development & Secondary Education Escrow Account.	44,011	6500	The current collection of the Secondary and Higher Education Cess is in excess of Rs <b>6500</b> Crores each year. This money unfortunately is not being spent as no project has been identified for using it.
		Under Securitization Facility		The CAG had in its Dec ' 2017 report stated that of the Rs <b>83,497</b> Crores collected as Secondary & Higher Education Cess (SHEC cess) between 2006 - 07 and 2016 - 17, no amount could be transferred to the Earmarked Fund because the schemes on which the funds could be spent had not been identified. This money can be used for the Education Megaproject.
	The CAG had in its Dec ' 2017 report stated that of the Rs <b>83,497</b> Crores collected as Secondary & Higher Education Cess (SHEC cess) between 2006 - 07 and 2016 - 17, no amount could be transferred to the Earmarked Fund because the schemes on which the funds could be spent had not been identified.			In addition, Govt. could consider collecting this Education Cess within a specially created <u>Secondary Education Escrow Account</u> and securitize these receivables to raise Rs <b>44,011</b> on an immediate basis to build more secondary schools under the aegis of the Vivekananda Secondary Education & Skill development Megaproject.
n	Convertination of 20 % of MONDEOA founds	74.404	44 000	Currently MGNREGA has a yearly budget of Rs. <b>55,000</b> Crores in 2018. Under previous governments this money <u>was not</u> being used to create Long term productive assets in rural areas.
В.	Securitization of 20 % of MGNREGA funds for constructing New Skills development centers & Secondary Schools in Rural Areas.	74,481  Under  Securitization  Facility	11,000	It is proposed to divert 20 % of MGNREGA funds to create Long Term Economic Assets (i.e. skill development centers / secondary schools ) in rural areas. The highest return on capital comes from Education and Healthcare infrastructure creation, so given the <a href="massive shortage">massive shortage</a> of Secondary Schools in rural areas, it is proposed to use this money to maximize rural impact through enhanced secondary education opportunities.
	Grand Total of Construction Financing Options	99,67,370	11,77,887	Rs <b>1,50,168</b> Crores (One Lakh Fifty Thousand, One hundred and Sixty Eight Crores) can be made available each year for a project which will construct 30,000 New Secondary Schools Across 29 States and 7 Union Territories. Some of this money can be raised totally independent of either the Central or State Government Budgets and the money (except ,3A, 3B and <b>12</b> above) can be raised
	After Excluding <u>BIG TICKET</u> items <u>7</u> , <u>8</u> , <u>9</u> and existing budgetary items 3A, 3B and <u>12</u> .	5,63,311	1,50,168	without diverting any funds from existing budgeted or committed government schemes. This amount does NOT include the Rs <b>83,497</b> crores of accumulated SHEC Cess.

# **About the Designer**





Ashish Puntambekar is a trustee of the Nataraja Foundation and heads its Design Lab. He has over 25 years of experience working with some of the finest talent globally in the Energy and Infrastructure sectors and specifically in the area of large Infrastructure project design and design thinking where he is a specialist.

He has been Lead Designer for the <u>Defence Industrial Corridor (DIC) project</u> which has recently received an investment commitment of Rs 40,000 Crores from the Govt of India in the Feb, 2018 union budget. The Prime Minister has personally launched this massive Defence equipment manufacturing project and two large DICs will now to be built at Bundelkhand and along the Chennai – Bangalore route in project mode. Likely commissioning date of both DIC's is Jan '2027.

Besides the Defence project, he has recently been the convener of an International Advisory Board (IAB) with Harvard Economists, Former G – 7 Finance Ministers, Foreign Ambassadors and Defence Analysts as members. His expertise in the Geopolitics of Petroleum, his deep understanding of Middle East history and politics and his knowledge of technology shifts in the Energy Industry have earned him a name in the energy analyst community internationally. He is also an expert invitee at the Asian Development Bank (ADB) where his work on Urban Equity Withdrawal based financing has been presented. He has also been an invitee speaker on TEDx to talk about ideas that can triple the size of the Indian economy by 2030-32. Apart from this he has written articles on Geopolitics, Energy Security & Military - Industrial strategy for the Indian Defence Review magazine.

Ashish has worked in a number of diverse roles. He started his career as a project engineer working in a large petrochemicals complex and then moved on to various increasingly senior engineering, business and senior management positions on assignments involving Power plants, Ports, LNG Terminals, Oil Refineries and Pipelines. He has also worked as an Energy Derivatives Trader for a period of 5 years where he has traded crude oil flat price and petroleum product derivatives on all major commodity exchanges and OTC Markets / Investment banks around the world.

Over the years, he has designed several multi billion dollar projects which are under active consideration by the Indian Government:

- 1. The Defence Industrial Corridor Project
- 2. The Vivekanand Secondary Education & Skills Development Megaproject
- 3. The Indian East Coast Energy Corridor Project
- 4. The Mumbai Megaproject Eastern Waterfront and Artificial Islands
- 5. The Indian Healthcare Megaproject (Under development)
- 6. The Ganges River Basin Re-Juvenation Megaproject (Under development)

Strategic Objective: Ashish is the initiator and founder of the Construct India Mission which has received official sponsorship from the Ministry of Commerce, Govt. of India. Through his work and ideas the author seeks to make India the worlds largest construction market. The focus therefore is not just on robust project design, but also on financial innovation which is critical to bring these large projects to life ... and in the process create approx. 65 Million New Jobs in India by 2027.

Of all the projects he has written, the Vivekanand Secondary education and skill development project is his flagship and favourite project. This is the project that can transform not just India, but the whole of South Asia through its broad and expansively tolerant philosophy which comes from Swami Vivekanand.

Ashish has a bachelors degree in Mechanical Engineering and a Masters degree in International Business.