



**VASUDHA
FOUNDATION**
Green ways for a good earth!

ANNUAL REPORT

2019 - 2020

Vasudha Foundation is a non-profit organisation set up in 2010, with the belief in the conservation of Vasudha, which in Sanskrit means the Earth, the giver of wealth and with the objective of promoting sustainable consumption of its bounties.

ABOUT THE ORGANISATION

Vasudha Foundation is one of the prominent CSO/Think Tanks with the mission to conserve Vasudha through innovative approaches that can ensure a sustainable and inclusive future for India and Mother Earth. The Vasudha Foundation's approach is largely data-driven analysis, the creation of data repositories with cross-sectoral analysis, and outreach to ensure resource conservation with the ultimate objective of conserving Mother Earth.



OUR VISION

We believe in the conservation of *Vasudha*, which in Sanskrit means the Earth, the giver of wealth, with the objective of promoting sustainable consumption of its bounties.



OUR MISSION

We promote environment-friendly, socially just and sustainable models of energy by focusing on renewable energy and energy efficient technologies as well as lifestyle solutions.

AREAS OF WORK



ACCESS TO CLEAN ENERGY AND CREATION OF LIVELIHOODS THROUGH CLEAN ENERGY APPLICATIONS

Vasudha Foundation is engaged in ensuring access to clean, sustainable, affordable, 24x7 energy for all and works in collaboration with various agencies to develop models and pilots for rural energy access with an aim to address livelihood enhancement and income creation in rural areas.

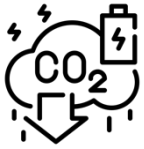


RENEWABLE ENERGY AND POWER SECTOR – ENERGY TRANSITION

Vasudha's Energy Transition team is primarily focused on assisting India's clean energy transition by developing data repositories and conducting data-driven analysis to ensure that all stakeholders are on board with the country's clean energy transition. The team also assesses potential or possible barriers to scaling up clean energy solutions and reforming India's power sector, as well as proposes potential solutions to address the perceived barriers, through its in-depth analysis.

The energy transition team has also focused on highlighting cross-sectoral issues that have an impact on India's power sector, particularly those related to water, land, environment, and air quality.

The organisation has already built a large data repository that is housed in an exclusive website that allows easy access to data and analysis without any paywalls, which will aid in attracting a wide range of stakeholders to participate and actively engage in India's clean energy transition.



LOW CARBON PATHWAYS AND CLIMATE POLICY

The Climate team engages actively with policymakers, researchers and others stakeholders at the state and national level with robust qualitative and quantitative research and analysis to ensure mainstreaming climate concerns and sustainable development goals into development planning. The climate team works with the energy transition team to develop cross-sectoral and sector specific solutions to mainstream climate and sustainable development goals.



SUSTAINABLE TRANSPORT SOLUTIONS

The sustainable transport solutions team sits with the climate and energy transition team and is engaged in promoting the policies of the Government of India to scale up electric mobility, public transportation and non-motorised transportation across the length and breadth of India. The team is currently engaged in mapping barriers towards achieving the set target of 30% electric mobility by 2030 to ensure the target achievement.



CLIMATE FINANCE

The climate finance team works on the premise that finances are key to energy transition and this requires a combination of domestic financing as well as international financing. The Climate finance team is also tracking domestic financial flows and investments into clean energy solutions in India.



CLIMATE RESILIENCE

The work primarily engages with communities, particularly the farming communities in key states to promote low water use cropping in India. The team also works with communities in minimising crop burning through alternate solutions of using crop waste.



GLOBAL PARTNERSHIPS (CROSS-CUTTING)

Global Partnerships, as a cross-cutting project, entails proactively engaging with various global platforms on climate and clean energy solutions. Vasudha Foundation is a member of the IRENA Coalition of Action, The Climate Action Network, and various other Civil Society platforms such as Civil 20, BRICS 20, and others as part of its Global Partnerships. Vasudha Foundation is also a UNFCCC, World Bank, Asia Infrastructure Investment Bank, and New Development Bank accredited observer.

The team is also showcasing India's actions in combating climate change and the leadership role it is playing in renewable energy scale-up as part of its global engagement. The global engagement also keeps track of UNFCCC climate negotiations as well as international financial flows.



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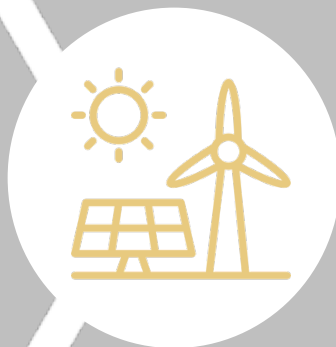




PROJECTS



CLIMATE



ENERGY



CROSS-CUTTING



CLIMATE

Climate Change and Environment Action Plan

Shakti Foundation

Vasudha Foundation with support from Shakti Sustainable Energy Foundation is working to develop and pilot the 'Climate Change and Environment Action Plans (CCEAP)' for a number of Indian districts, including Bhopal, Indore, Pune, Nagpur, Ahmedabad, and Rajkot. The key idea of the CCEAPs is to follow a bottom-up approach to climate proof development priorities for the district, while identifying the mitigation potential of all climate relevant sectors. CCEAPs will not only complement the State Action Plan on Climate Change but would also contribute to India's climate commitments and Nationally Determined Contributions (NDCs).

The Action Plans are being developed in consultation with the respective district administrations and with the state nodal climate change/environment department/agency. The CCEAPs take into account the respective district level baseline studies on climate variability and projections, emissions profile, budgetary analysis to estimate climate expenditure and such other crucial aspects. It also brings forth a comprehensive basket of recommendations for various climate relevant sectors and environmental issues of the district, along with case examples and estimated mitigation potential.

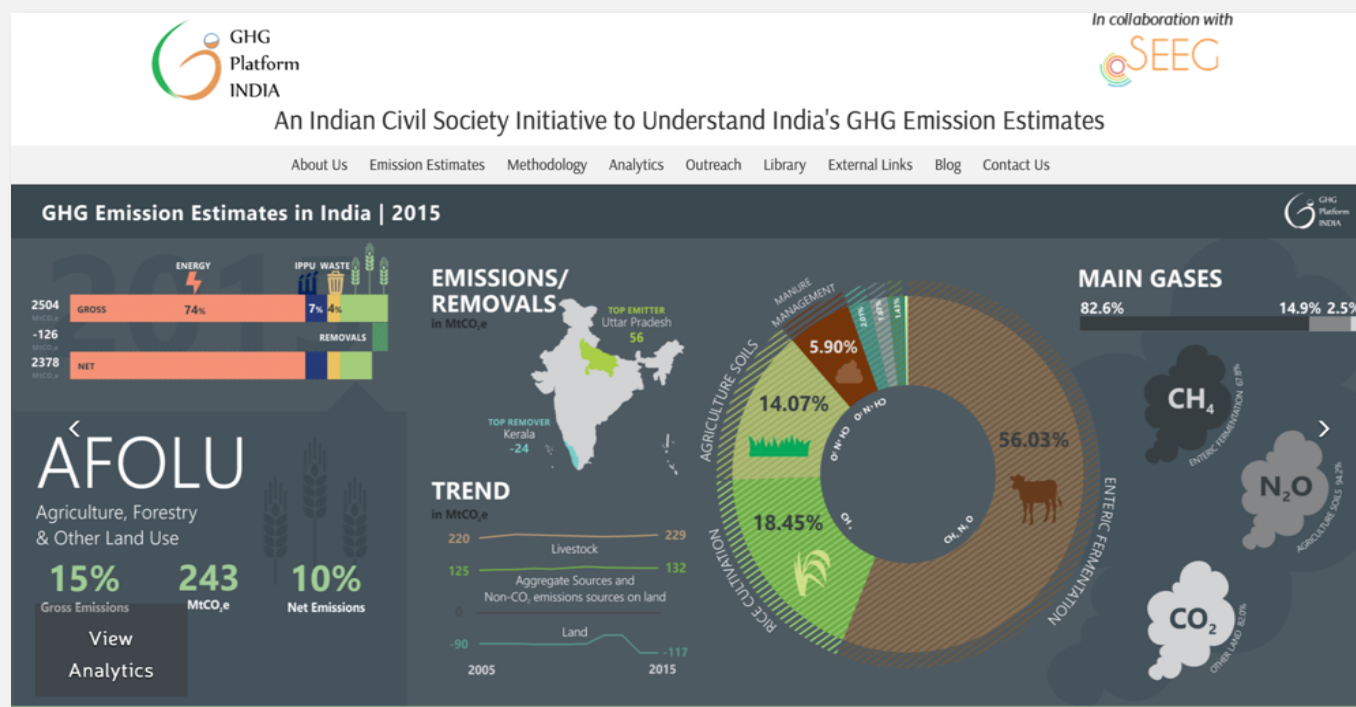
Climate Change Adaptation in Rural Areas of India

Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ)



The project 'Climate Change Adaptation in Rural Areas-India (CCA-RAI)' being implemented under the bilateral cooperation of Ministry of Environment, Forest and Climate Change (MoEFCC) and Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH-India, aims to integrate climate adaptation measures into the national and state development planning process. It also aims to develop concrete pilot experiences on adaptation measures in partnership with identified states and support up-scaling of successful technical and financial adaptation approaches.

Punjab is one of the partner states and the Punjab State Council for Science and Technology (PSCST) is the nodal partner. The study was carried out by Vasudha as part of the project in partnership with PSCST.



The GHG Platform – India (GHGPI) is a collective civil-society initiative providing independent estimates of year-on-year greenhouse gas emissions for India and all individual states, accounting for CO₂, CH₄ and N₂O emissions and analysis of India's GHG emissions across key sectors such as energy, waste, industry, and AFOLU (Agriculture, Forest and Other Land Use). The partner organisations for GHGPI are Council on Energy, Environment and Water (CEEW); Center for Study of Science, Technology and Policy (CSTEP); ICLEI Local Governments for Sustainability-South Asia; and World Resources Institute, India with support from Shakti Sustainable Energy Foundation (SSEF).

The Vasudha Foundation also serves as the platform's Secretariat, besides estimating and preparing reports for the AFOLU sector. GHGPI was set up in 2015 and has since estimated GHG emissions for India and individual states from 2005 to 2015 (year-on-year). It has successfully completed three phases. In Phase-III of GHGPI, estimates have been done for both national- and state-level emissions for the time-series of 2005 to 2015, by accounting CO₂, CH₄, N₂O emissions. It strictly follows the methodology guidelines as given by the Intergovernmental Panel on Climate Change (IPCC) and sources the activity data from government sources.

The work of the GHG Platform has been recognised by the Government of India in its second and third biannual submissions (BUR II and BUR III) to the UNFCCC, in December 2019.

Access here: <http://www.ghgplatform-india.org/>

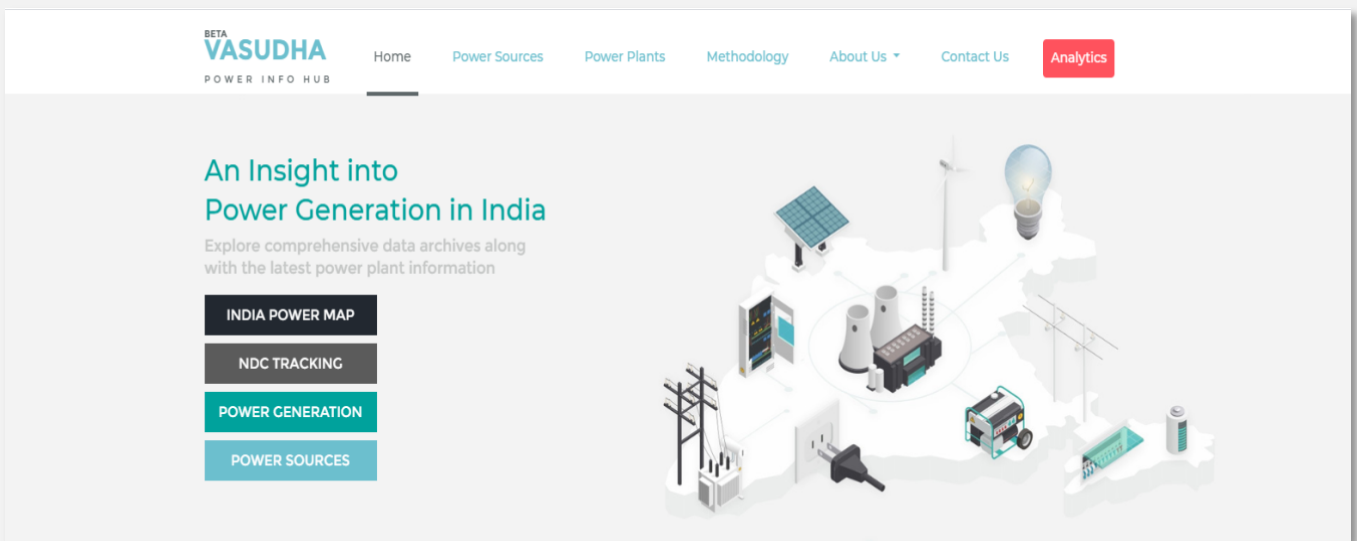




ENERGY

Vasudha Power Info Hub

Children's Investment Fund Foundation
SED Fund



Vasudha Power Info Hub is an online platform that aims to bring together comprehensive, integrated, historical, and current data on India's power sector, as well as provide insightful analysis, in order to help India's energy transition and move towards a greener future. It aims to accelerate the pace of India's Energy Transition by using data and information to ensure that everyone has access to sustainable and clean energy. This multi-year project aims to accelerate India's energy transition, with the first phase focusing on the power sector's transition from fossil fuel-intensive to renewable-energy-dominated electricity generation.

The project has taken the first step in this direction by creating a detailed database ("the tool") that captures granular data on India's electricity generation and making it publicly available.

This data-portal is unique in that it not only captures electricity generation data at the most granular level (Plant/Unit level), but it also integrates data from other sectors that impact or are impacted by the power sector.

Data on water usage/availability (current and future projections), land use, and proximity to bio-diversity hotspots are just a few examples.

From an energy transition perspective, the reason behind setting up this data-portal is to ensure that comprehensive data on the current state of affairs of India's electricity generation is made available to all as well as to ensure that key stakeholders such as the financial community and others, understand why continued investments in fossil fuel may end up with mounting non-performing asset portfolio for them.

Access here: www.vasudhapower.in

The Power Outlook Series developed by Vasudha Foundation with support from Shakti Sustainable Energy Foundation provides an overview of the current status of India's power sector with a focus on significant and emerging developments. This series aims to develop a more informed understanding of the power sector and may act as a tracking tool for stakeholders. The series will feature biannual editions to provide a comprehensive picture of current state of India's Power Sector and its value chain, with a focus on significant and emerging new developments, policies and programmes governing the power sector.

India's Power Outlook – Volume 1

Volume 1 of India's Power Outlook Series titled, 'Current State of Play' focuses on the entire power sector value chain and captures the key trends and transitions that are shaping the sector. It details the focus areas and lists the policy implications under each sub-sector (generation, transmission, and distribution). Besides this, it also takes a comprehensive approach to electricity demand, consumption, and development.

Available here: <https://www.vasudha-foundation.org/2020-indias-power-outlook-volume-1/>

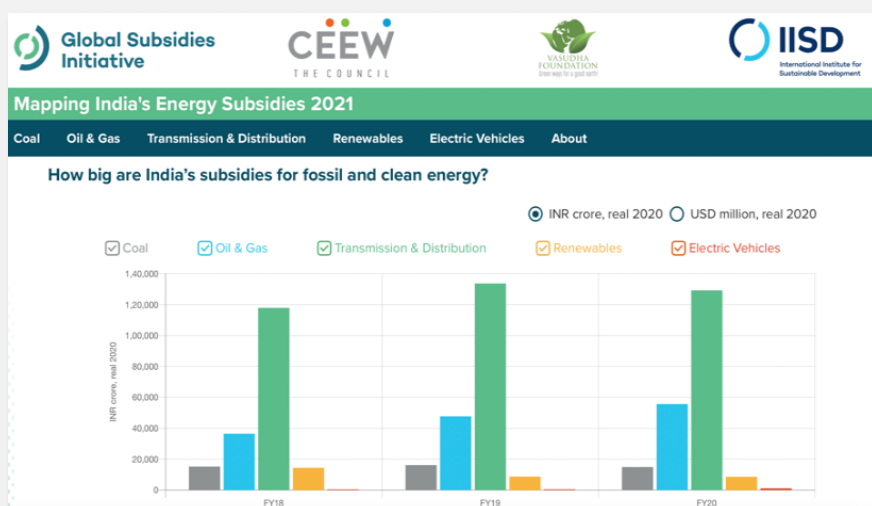


Mapping India's Energy Subsidies 2020

International Institute for Sustainable Development (IISD)

The IISD's Global Subsidies Initiative has compiled a wealth of data on energy subsidies and their effects around the world, as well as in India. 'Mapping India's Energy Subsidies 2020: Fossil Fuels, Renewables, and Electric Vehicles' is a detailed report that analyses these data and their implications for India's energy sector ambitions.

The report is accompanied by an online data portal to help browse the subsidy data in detail and includes detailed spreadsheets and annexes for policy-makers and researchers. The IISD partnered with Vasudha Foundation to create this platform in order to promote data transparency in India's energy sector.



Access here:

<https://www.vasudha-foundation.org/mapping-indias-energy-subsidies-2020-fossil-fuels-renewables-and-electric-vehicles/>

<https://www.iisd.org/gsi/mapping-india-energy-subsidies-data/>

Energy Transition Platform

South Asia

Heinrich-Böll-Stiftung (HBF, India)

Energy Transition Platform is an initiative that brings together Sustainable Energy Practitioners and Civil Society Organisations (CSOs) from South Asia to form a partnership to work towards the goal of creating a Fossil Fuel Free South Asia by 2050.



This Pan-Asian platform aims to bring together diverse voices on Climate Change, as well as develop a platform for energy practitioners across South Asia to work on energy transition at a regional level and explore the impact of coal mining on forest and land use, among other things.

Areas of Work

Our work towards transforming the energy scenario in South Asia is spread across these various dimensions



Energy Transition



Energy Access



Clean Air



CROSS-CUTTING

Climate, Environment, Development Platform India

OAK Foundation

Integrating Climate Change and Environment into Development Bringing Together Common Voices in India

Vasudha has set up a platform that was envisioned in the original concept as part of the ongoing processes revealed under this project. As a result, the Climate, Environment, and Development Platform India (CEDPI) has been established, which is a Pan-India platform of organisations that have come together to explore options and pathways for greater sustainability of India's development programmes and processes in the climate and environment space. Vasudha Foundation has served as the platform's secretariat. Around 20 organisations are currently affiliated with the platform, some of which work on a pan-India level and others on specific states such as Uttar Pradesh, Bihar, Tamil Nadu, Kerala, Andhra Pradesh, Telangana, Karnataka, and others.

The platform has been established to create a network of civil society groups and actors around climate change and environmental issues that can push forward a pro-poor long term sustainable development agenda.

The ultimate objective of such a platform would be to engage with select state governments as well as the Union Government departments to proactively address issues of natural resources management, clean energy, climate change, sustainable use and conservation, in order to achieve an equitable, sustainable and low-carbon development trajectory.

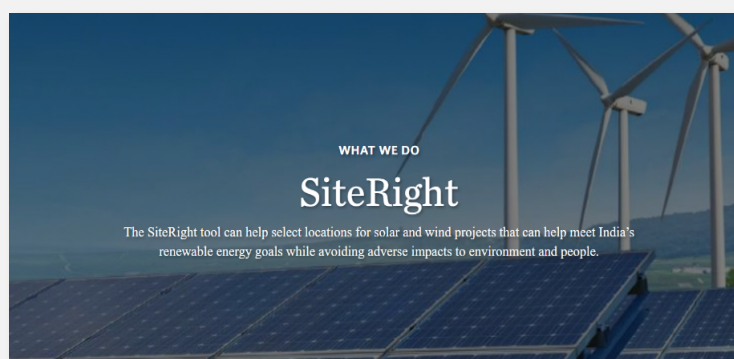
Overarching goals of the platform are:

- Exploring the linkages between sub-national actions and their synergies in the achievement and/or enhancement of India's NDC targets
- Integrating mitigation and adaptation concerns at the sub-national level for climate-resilient development
- Explore the interface between NDCs and SDGs and facilitate their convergence
- Bring together disparate voices on climate, environment and development to amplify the need for integrated actions.

SiteRight Tool

The Nature Conservancy, India

Vasudha Foundation is part of a consortium that developed the SiteRight Tool to identify land parcels for utility-scale solar and wind projects in India, along with The Nature Conservancy, Center for the Study of Science, Technology, and Policy (CSTEP), and Foundation for Ecological Security (FES). The tool aids in the identification of land parcels by taking into account resource potentials as well as the social and ecological value of those parcels.



Access here: <https://www.tncindia.in/what-we-do/siteright/>

Land Use Change – Analysis | India 2020

Heinrich-Böll-Stiftung (HBF, India)

India's Coal generation and Land Use – a data driven analysis and making a business case for energy transition in India

The purpose of the analysis is to highlight the extent of land use due to coal mining operations through the use of GIS Mapping and Satellite Image Analysis. This is done with an aim to drive home the point that with increasing coal mining operations, meeting one of India's goals of creating additional carbon sinks of 2.5 billion to 3 billion tonnes of CO₂ equivalent through creating additional forest cover could be a daunting task. Vasudha is working on a comprehensive report that will thoroughly reflect the analysis.

Air Quality Mapping – Analysis | India 2020

Heinrich-Böll-Stiftung (HBF, India)

India's Coal Generation and Air Quality – A Data Driven Analysis of the Impacts of Coal Fired Power Plants on India's Air Quality Index

The overall objective of the mapping is to draw a clear linkage between coal-fired power plants and coal mining operations to air quality levels in the region. It is also a mapping exercise to add to the discourse on energy transition in India, particularly from coal to renewable energy, with the end goal of adding more dimensions to the issue of energy transition in India.



EVENTS

Workshop on 'Tracking India's Emission Estimates, State Action and NDC Progress' New Delhi, 26th September, 2019

The GHG Platform India organized its Phase-III workshop on India's emission estimates and Nationally Determined Contributions (NDC) implementation, on 26th September 2019 at The Claridges Hotel, New Delhi.



The workshop was attended by Dr J R Bhatt, Advisor (Climate Change), MoEFCC and Ajay Raghava, Deputy Director, MoEFCC along with representatives from state nodal climate change agencies from Madhya Pradesh and Gujarat, representatives from the media, Civil Society Groups, Think tanks and research organisations. The partners presented key findings from Phase III and highlights from policy impact evaluation of Gujarat and the mitigation aspect of Madhya Pradesh's SAPCC version 2.0. The workshop also featured interactive discussions related to the implementation of India's NDCs and the role of states in implementing it.

All Partners' Meeting, Energy Transition Platform Bangkok, 15th and 16th November, 2019

The second platform meeting held in Bangkok on 15th and 16th of November, 2019 was attended by all partner organisations. The objective of the meeting was to recap the activities and progress from last year and to look ahead and plan for the second year of the platform. The meeting was initiated by a presentation from the ASEAN Network, sharing their objectives, rationale and valuable experience.



The focus of the discussion was to build the platform communications, strategies and objectives for the next year, including planning for outreach and fund-raising activities.

Launch of India's Power Outlook Series, Volume 1 Hyderabad 11th February, 2020

The Power Outlook Series developed by Vasudha Foundation with support from Shakti Sustainable Energy Foundation provides an overview of the current status of India's power sector with a focus on significant and emerging developments. This series aims to develop a more informed understanding of the power sector and may act as a tracking tool for stakeholders. Volume 1 titled '*Current State of Play*' was launched by dignitaries at the Energise 2020 event in Hyderabad.



The report primarily focuses on the power sector value chain and captures the key trends and transitions shaping the sector. It provides details on the focus areas and lists the policy implications under each sub-sector (generation, transmission, and distribution). Besides the three sub-sectors, this volume also looks at electricity demand, consumption, and development in an integrated manner.

FINANCIALS

VASUDHA FOUNDATION - FCRA

12, 9th Main Banashankari 2nd Stage Bangalore Karnataka-560 070

Receipt and Payment Account for the year ended 31st March 2020

| Cash Inflow | Amount (INR) | Cash Outflow | Amount (INR) |
|-----------------------------------------------------|-------------------|----------------------------------------------------------------|-------------------|
| Opening Cash & Bank | 8,279,226 | Programme Expenditure | |
| Grants Received | | Travel and Accomodation | 2,409,899 |
| Heinrich Boll Foundation | 5,752,196 | Meeting Expenses | 343,311 |
| Heinrich Boll Foundation (Received: Assets in Kind) | 12,000 | Local Conveyance | 273,568 |
| Shakti Sustainable Energy Foundation | 15,695,865 | Programme Staff Salaries | 12,011,464 |
| The Nature Conservancy | 4,854,344 | Honorarium | 10,000 |
| Vasudha Foundation - USA Inc | 2,798,000 | Communication | 53,616 |
| Children's Investment Fund Foundation | 10,611,000 | Printing and Publication | 57,185 |
| Bank Interest | 820,218 | Web Design & Maintenance | 669,242 |
| | | Programme Expenditure | 225,000 |
| | | Consultancy Charges | 657,433 |
| | | LISS Satellite Data Purchase | 61,774 |
| | | Duties and Taxes Paid | |
| | | TDS Deducted and Paid | 1,712,103 |
| | | Administration Expenses | |
| | | Printing and Stationery | 66,579 |
| | | Computer Peripherals | 4,835 |
| | | Miscellaneous Expenses | 543 |
| | | Office Consumables | 111,289 |
| | | Office Maintenance | 15,619 |
| | | MS Office Renewal Charges | 6,253 |
| | | Electricity Expenses | 143,241 |
| | | Water Expenses | 14,000 |
| | | Staff Salaries | 1,998,752 |
| | | Local Conveyance | 4,275 |
| | | Communication | 61,117 |
| | | Office Rent | 1,200,624 |
| | | Audit Fee and Other Charges | 31,950 |
| | | Audit Certification Charges and Miscellaneous | 10,800 |
| | | Recruitment Costs | 45,120 |
| | | Accounting Software Renewal Charges | 6,372 |
| | | Bank Charges | 6,704 |
| | | Duties and Taxes Paid | |
| | | TDS deducted and paid | 216,731 |
| | | Asset Purchases/Assets in Kind (As Per Schedule VI annexed) | 494,358 |
| | | Fixed Deposit | 15,000,000 |
| | | Interest Accrued | 28,478 |
| | | TDS Receivable | 38,060 |
| | | Closing Bank Balance | 10,827,693 |
| | | Cash in Hand | 4,861 |
| Grand Total | 48,822,849 | Grand Total | 48,822,849 |

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For Tinu Sood and Company
Chartered Accountants

FRN: 022090N
NEW DELHI
Tinu Sood
Partner
M.No: 511444, FRN: 022090N

Date: 24/12/2020
Place : New Delhi

For VASUDHA FOUNDATION - FCRA

Srinivas Krishnaswamy
Trustee
VASUDHA FOUNDATION
BANGALORE



Vasudha Foundation

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info@vasudhaindia.org