

“BUNDLED WIND POWER PROJECT IN TAMILNADU, INDIA, CO-ORDINATED BY TAMILNADU SPINNING MILLS ASSOCIATION (TASMA-V2)”

**Document Prepared By**

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1 PROJECT DETAILS

1.1 Summary Description of the Project

Description of the Project activity:

The project activity is the bundling of 396 Wind Turbine Generators (WTGs) sponsored by 201 individual investors aggregating to a total installed capacity of **236.050 MW**. All these WTGs are spread in the entire State of Tamilnadu, India and the bundling activity is undertaken by Tamilnadu Spinning Mills Association (TASMA). Each individual investor has authorized¹ TASMA to act as the Bundler as well as the focal point for this project activity. The development of this project activity as a bundled VCS project will thus reduce the transactional cost incurred for individual investors to avail VCU revenue.

The details of the individual WTGs like its Sub-bundle owner, installed capacity, make, commissioning date etc., are presented in Appendix 1 of the PD.

Purpose of the project activity:

The purpose of the project activity is to generate clean electrical energy through sustainable means using wind power resources. The Wind mill investors have aimed either to wheel such generated power to its own facility to meet out its captive electricity demand or selling it to the State Electricity Utility. In this bundled project activity, the power generation from 194 WTGs is wheeled by respective Sub-bundle investors for captive consumption and the power generation from 202 WTGs would sell to grid. In both the cases, such generated electricity from renewable source would contribute to climate change mitigation efforts.

Pre Project scenario:

The bundled project activity is the Greenfield project activity and in the absence of the project activity, the equivalent amount of power as generated by the project activity would have been generated by power plants connected to the Southern regional Grid which are pre-dominantly fossil fuel based power plants. Thus, the scenario existing prior to the start of the implementation of the project activity is same as the baseline scenario as identified in section 2.4.

The net power generation from the project activity has been estimated to be 45,59,321 MWh over the credit period of 10 years. The project activity, thus reduces anthropogenic emissions of greenhouse gases (GHGs) in to the atmosphere, which is estimated to be approximately 41,73,925 tCO₂e over the period of 10 years, by displacing equivalent amount of electricity generation through the operation of grid connected power plants which are predominantly GHG intensive in nature and also by future capacity additions likely to be connected to the southern regional grid.

The windmill investors are implementing this project considering VCU revenue to make this project viable.

Apart from generation of renewable electricity, the project has also been conceived to contribute towards sustainable development of the region - socially, environmentally and economically. Ministry of Environment and Forests (MoEF), Government of India, has stipulated the following indicators for sustainable development in the interim approval guidelines for GHG Emission Reduction projects.

¹ Authorization Letter given by Individual Investors is submitted to DOE

1. Social well-being;
2. Economic-well being;
3. Environmental - well being; and
4. Technological-well being

The project participants' view on the contribution of this project activity towards sustainable development follows these four indicators and is explained in detail in Appendix 2 of the PD.

1.2 Sectoral Scope and Project Type

Sectoral Scope : 01 - Energy Industry (renewable/ non-renewable sources)

Project Category : "Grid connected electricity generation from renewable sources"

Project Scale : Large since it generates more than 300,000 tCO₂ eq. per year

Whether Grouped : This project activity is not a grouped project

1.3 Project Proponent

Name of the Project Proponent	Contact Details	Roles/Responsibilities
M/s. Tamilnadu Spinning Mills Association (TASMA) Headed by: Dr. K. Venkatachalam Chief Advisor	#2, Karur Road, Modern Nagar, Dindigul, Tamilnadu – 624 001 India. Ph: +91 451 6454666 Fax: +91 451 2433637 Mail: chiefadvisor@tasma.in	Is the Focal Point for the project activity To ensure that the project activity is in compliance with all the local laws and regulations applicable to the project activity. To monitor the efficient operations of windmills and to maintain the monthly generation records in a proper manner.

1.4 Other Entities Involved in the Project

No other entities are involved in developing the project

1.5 Project Start Date

16th February, 2010 (as per VCS Program Definitions)

1.6 Project Crediting Period

From 16th February 2010 to 15th February 2020 for a period of 10 years and 0 Months

1.7 Project Scale and Estimated GHG Emission Reductions or Removals

Project	
Large project	✓

Years	Estimated GHG emission reductions or removals (tCO ₂ e)
2010	1,39,923
2011	3,88,534
2012	448,827
2013	448,827
2014	448,827
2015	448,827
2016	448,827
2017	448,827
2018	448,827
2019	448,827
2020	54,857
Total estimated ERs	41,73,925
Total number of crediting years	10 Years
Average annual ERs	4,17,392.5

Note: 2010- Year starts from 16th February to 31st December 2010

2011- Year starts from 1st January to 31st December 2011

2012-2019- 1st January to 31st December

2020- 1st January 2020 to 15th February 2020.

Total crediting period is thus 10 years only.

1.8 Description of the Project Activity

Wind energy generation is a clean technology for production of electricity, with no emissions of Green House Gases.

The Baseline scenario of the project activity would be the same as that of the pre-project scenario i.e. the same quantum of power would have been supplied from the conventional power plants connected to the southern grid (like Coal, Gas etc.)

The Project activity involves installation of 396 Wind Turbine Generators (WTGs) with a total cumulative installed capacity of 236.050 MW. The internal electrical lines are connected with the local evacuation facility. The expected lifetime of a WTG would be 20 years.²

² The Technical lifetime of WTG is considered 20 years as per TNERC Tariff order No 01.

The projects covered by this project activity involves the following rated capacities of WTG.

Capacity Wise Details			
Sl. No.	Capacity (KW)	No. of Machines	Total Capacity (MW)
1	225	66	14.850
2	250	98	24.500
3	600	93	55.800
4	750	11	8.250
5	800	21	16.800
6	850	61	51.850
7	1000	3	3.000
8	1250	17	21.250
9	1500	21	31.500
10	1650	5	8.250
Total		396	236.05

The projects covered by this project activity involves the following makes of WTGs

Make Wise Details				
Sl. No.	Make	Capacity (KW)	No. of Machines	Total Capacity (MW)
1	SOUTHERN WIND FARMS LTD.,	225	66	14.850
2	CHIRANJEEVI WIND ENERGY LTD.,	250	35	8.750
3	PIONEER WINCON PVT. LTD.,	250	52	13.000
4	SHRIRAM EPC LTD.,	250	1	0.250
5	SIVA WINDTURBINE INDIA PVT. LTD.,	250	10	2.500
6	RRB ENERGY LTD.,	600	91	54.600
7	SUZLON ENERGY LTD.,	600	2	1.200
8	PIONEER WINCON PVT. LTD.,	750	11	8.250
9	ENERCON INDIA LTD.,	800	21	16.800
10	GAMESA WIND TURBINES PVT. LTD.,	850	61	51.850
11	WINWIND POWER ENERGY PVT. LTD.,	1000	3	3.000

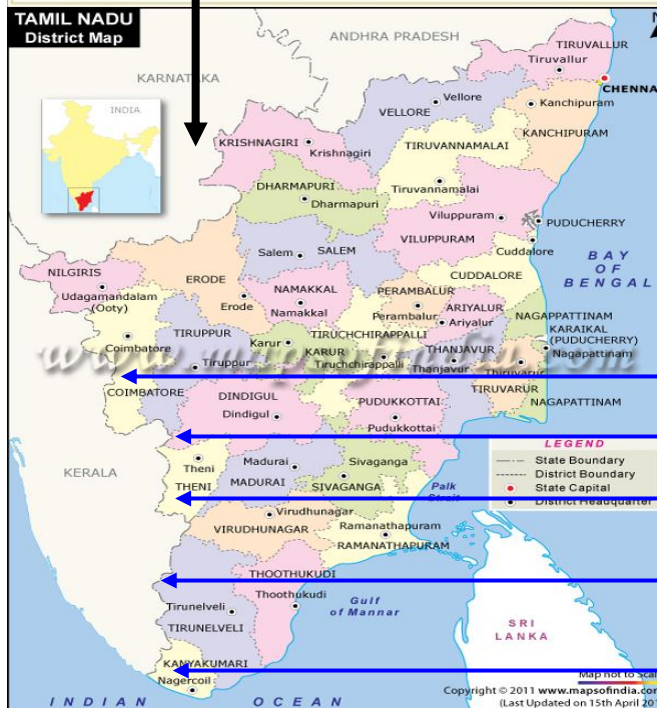
12	SUZLON ENERGY LTD.,	1250	17	21.250
13	REGEN POWERTECH PVT. LTD.,	1500	9	13.500
14	SUZLON ENERGY LTD.,	1500	12	18.000
15	VESTAS WIND TECHNOLOGY INDIA PVT. LTD.,	1650	5	8.250
Total			396	236.050

The salient features of the technology of WTGs in the bundle are detailed below:

S.No	Make	Capacity (In KW)	Technical Parameters				References
			Model	Hub Height (In Meters)	Rotor Dia (In Meter)	Gear Type	
1	PIONEER WINCON	250	P 250/29	50	29	With Gear	Purchase Order
		750	P750/59	60	49	With Gear	Purchase Order
2	Chiranjeevi Wind Energy Limited (CWEL)	250	C-2920/250	50	29.2	With Gear	Purchase Order
3	ENERCON	800	E-53	72-74	52.9	Gearless	Purchase Order
4	SUZLON ENERGY LTD.,	1250	S64	65	64	With Gear	Purchase Order
			S66	74	66		
		600	S52	75	52		
		1500	S82	78.5	82		
5	RRB ENERGY LTD.,	600	PS-600	50	47	With Gear	Purchase Order
				65	47	With Gear	Purchase Order
6	REGEN POWERTECH PVT. LTD.,	1500	Vensys 82	85	82	With Gear	Purchase Order
7	GAMESA WIND TURBINES PVT. LTD.,	850	G52	65	52	With Gear	Purchase Order
			G58	65	58		
8	SOUTHERN WIND FARMS LTD.,	225	GWL225	29.5	45	With Gear	Purchase Order
9	SIVA WIND TURBINES	250	SIVA 250/50	30	50	With Gear	Purchase Order
10	VESTAS WIND TECHNOLOGIES	1650	V82	78	82	With Gear	Purchase Order
11	SHRIRAM EPC	250	SEPC 250 T	51.5	28.5	With Gear	Purchase Order
12	WINWIND POWER ENERGY	1000	WWD-1	70	60	With Gear	Purchase Order

1.9 Project Location

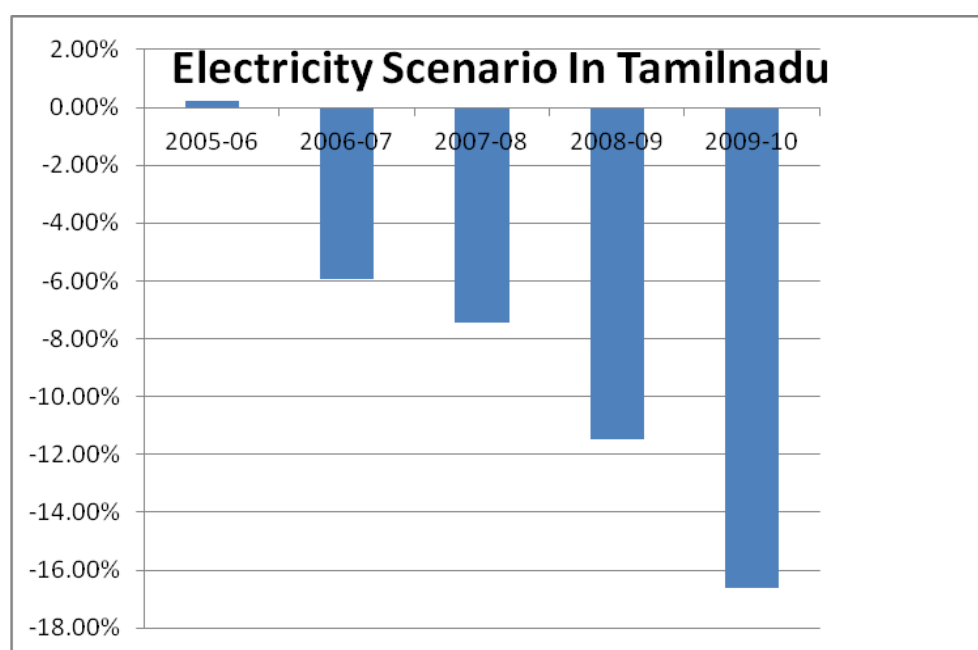
The map below shows the geographical location of the project sites. All these sites are identified as potential locations for the wind electricity generation by the Ministry of New and Renewable Energy (MNRE), Govt. of India. The details of the individual WTGs under the project activity like Capacity, unique High Tension Service Connection (HTSC) number and Global Positioning System (Geo-Coordinates) are presented in Appendix- 1 at the end of the VCS PD.



1.10 Conditions Prior to Project Initiation

As per the below statistics & chart representation, Tamilnadu has constantly been plagued with a demand supply gap in the Power sector for the past five years. Such a gap is a major hindrance to the growth of a developing economy like India.

S.NO	YEAR	INSTALLED CAPACITY (In MW)	AVERAGE SUPPLY (In MW)	PEAK DEMAND (In MW)	SHORTFALL (In %)
1	2005-06	10031	8225	8209	0.20%
2	2006-07	10098	8280	8803	-5.94%
3	2007-08	10122	8300	8969	-7.46%
4	2008-09	10214	8375	9459	-11.45%
5	2009-10	10214	8375	10046	-16.63%



In spite of significant growth in electricity generation over the years, the shortage of power continues to exist in Tamilnadu primarily on account of growth in demand for power, outstripping the growth in generation and generating capacity addition. Even now, Tamilnadu is facing an acute power shortage of around 3000 – 4000 MW³ every day.

Hence, in the absence of the project activity, equal amount of electricity would have been generated from the operation of existing power plants connected to Southern grid which are predominantly fossil fuel based or through future capacity additions to the grid.

1.11 Compliance with Laws, Statutes and Other Regulatory Frameworks

The wind power being a cleaner source for electricity generation does not require compliance of any local laws and regulations. However, the essential documents like No Objection Certificate (NOC), Energy Purchase Agreement or Energy Wheeling Agreement have been executed with TNEB/TANGEDCO before the start date of the individual WTGs.

³ <http://www.tn.gov.in/policynotes/pdf/energy.pdf>

Table: Relevant applicable laws & regulations and Compliance status of the project activity

Regulations	Compliance status
NOC from TNEB	Complied
EPA with TNEB (if sale to utility)	Complied
EWA with TNEB (if wheeling)	Complied

1.12 Ownership and Other Programs

1.12.1 Right of Use

The Commissioning certificate issued by the TNEB for all the WTGs is the vital evidence for the proof of title of the sub-project owners. Also, an authorization letter is given by each individual sub project owner to TASMA to deal with the processes. The above said documents will be provided to the DOE during validation.

1.12.2 Emissions Trading Programs and Other Binding Limits

The project will not use the generated credits under any Emissions Trading Programs and Other Binding Limits

1.12.3 Participation under Other GHG Programs

The project activity is seeking registration under CDM and currently the project is facing Validation.

1.12.4 Other Forms of Environmental Credit

The project activity is also eligible under another GHG program (UNFCCC-CDM). The PP declares that the VCU revenues will be considered only for the period during which no CDM/CER benefits are claimed.

1.12.5 Projects Rejected by Other GHG Programs

The project activity has never been rejected under any other GHG program.

1.13 Additional Information Relevant to the Project

Eligibility Criteria

Not applicable since the project is not a grouped project activity

Leakage Management

The project activity is the installation of new grid connected power plants (i.e) wind turbine generators and as such there are no leakages associated with the project and hence Leakage Management is not applicable.

Commercially Sensitive Information

No such commercially sensitive information is associated with the project and hence has not been excluded

Further Information

The project satisfies all the requirements of GHG programme including CDM and VCS programme. The project does not perceive any risk related to quantification of emission reductions or removal enhancements, including legislative, technical, economic, sectoral, social, environmental or geographic.

The project participants have obtained all clearances from the necessary relevant Authorities. The project activities' contribution towards sustainable development in terms of society, environment and economy (both direct and indirect impacts) are elaborated in more detail in Appendix 2 of the VCS PD.

2 APPLICATION OF METHODOLOGY

2.1 Title and Reference of Methodology

Title: Consolidated Baseline Methodology for grid-connected electricity generation from renewable sources

Reference: ACM0002

Version No: 12.2.0

The methodology also refers to the latest approved versions of:

- "Tool for the demonstration and assessment of additionality", Version 06
- "Tool to calculate the emission factor for an electricity system", Version 02.2.1

2.2 Applicability of Methodology

The approved consolidated baseline and monitoring methodology ACM0002, Version 12.2.0 is the choice of the baseline and monitoring methodology and its applicability condition is justified below:

'This methodology is applicable to grid-connected renewable power generation project activities that (a) install a new power plant at a site where no renewable power plant was operated prior to the implementation of the project activity (Greenfield plant); (b) involve a capacity addition; (c) involve a retrofit of (an) existing plant(s); or (d) involve a replacement of (an) existing plant(s).'

The proposed project activity is the installation of new Grid connected WTGs which is a renewable power generation project. Further, this is a green field project activity where prior to the implementation of the project activity, no renewable plant was operating at the site. Hence, the applicability condition is met out.

The project activity is the installation, capacity addition, retrofit or replacement of a power plant/unit of one of the following types: hydro power plant/unit (either with a run-of-river

reservoir or an accumulation reservoir), wind power plant/unit, geothermal power plant/unit, solar power plant/unit, wave power plant/unit or tidal power plant/unit;

This project activity involves grid connected renewable power generation involving installation of new wind power units and hence satisfies the applicability condition cited above.

In the case of capacity additions, retrofits or replacements (except for capacity addition projects for which the electricity generation of the existing power plant(s) or unit(s) is not affected): the existing plant started commercial operation prior to the start of a minimum historical reference period of five years, used for the calculation of baseline emissions and defined in the baseline emission section, and no capacity addition or retrofit of the plant has been undertaken between the start of this minimum historical reference period and the implementation of the project activity;

The project activity does not involve capacity additions and hence, is not relevant to the project activity.

In case of hydro power plants:

- **At least one of the following conditions must apply:**
 - The project activity is implemented in an existing single or multiple reservoirs, with no change in the volume of any of the reservoirs; or
 - The project activity is implemented in an existing single or multiple reservoirs, where the volume of any of reservoirs is increased and the power density of each reservoir, as per the definitions given in the Project Emissions section, is greater than 4 W/m² after the implementation of the project activity; or
 - The project activity results in new single or multiple reservoirs and the power density of each reservoir, as per the definitions given in the Project Emissions section, is greater than 4 W/m² after the implementation of the project activity.
- **In case of hydro power plants using multiple reservoirs where the power density of any of the reservoirs is lower than 4 W/m² after the implementation of the project activity all of the following conditions must apply:**
 - The power density calculated for the entire project activity using equation 5 is greater than 4 W/m²;
 - All reservoirs and hydro power plants are located at the same river and were designed together to function as an integrated project¹ that collectively constitutes the generation capacity of the combined power plant;
 - The water flow between the multiple reservoirs is not used by any other hydropower unit which is not a part of the project activity;
 - The total installed capacity of the power units, which are driven using water from the reservoirs with a power density lower than 4 W/m², is lower than 15 MW;
- **The total installed capacity of the power units, which are driven using water from reservoirs with power density lower than 4 W/m², is less than 10% of the total installed capacity of the project activity from multiple reservoirs.**

The project activity does not involve installation of hydro power plants and hence, the above applicability condition is not relevant for this project activity.

The methodology is not applicable to the following:

- **Project activities that involve switching from fossil fuels to renewable energy sources at the site of the project activity, since in this case the baseline may be the continued use of fossil fuels at the site;**
- **Biomass fired power plants;**

- A hydro power plants that result in the creation of a new single reservoir or in the increase in an existing single reservoir where the power density of the reservoir is less than 4 W/m^2 .

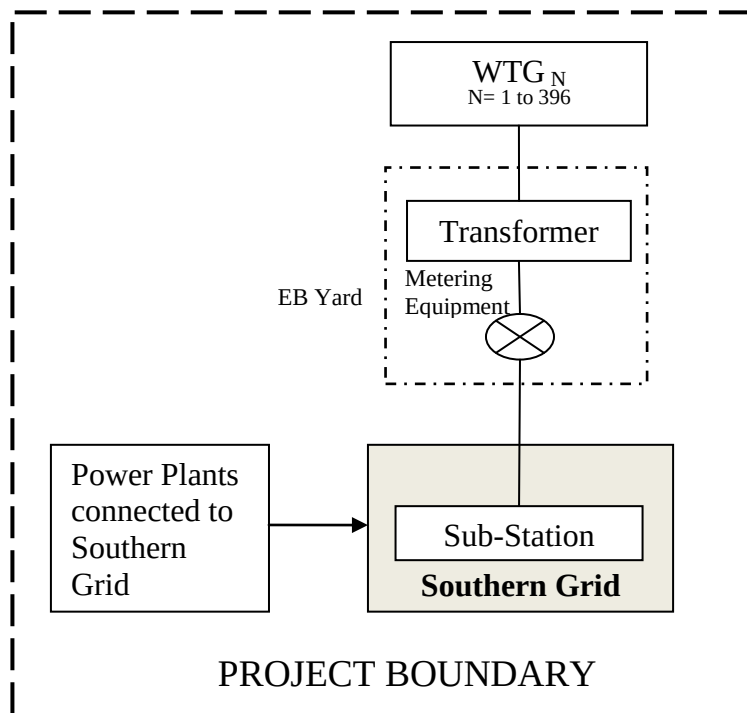
This project activity does not involve (i) switching from fossil fuels to renewable energy (ii) Biomass fired plant (iii) Hydro power plant and hence satisfies the applicability condition cited above.

Thus, the selected baseline methodology – ACM0002, version 12.2.0 is applicable for the project activity.

2.3 Project Boundary

As per applied methodology ACM 0002, version 12.2.0, “The spatial extent of the project boundary includes the project power plant and all power plants connected physically to the electricity system that the VCS project power plant is connected to”.

Therefore, the project boundary consists of wind turbine generators, the metering equipment for generator, the transformer, the grid and the corresponding substation for WTG till the point of evacuation. The following diagram illustrates the project boundary:



The significant anthropogenic emissions attributable to the project activity are listed in the table below.

Source	Gas	Included?	Justification/Explanation
☐ ☐ Fossil fuel fired power	CO ₂	Included	Main emission source

Source		Gas	Included?	Justification/Explanation
Project	plants connected to the grid	CH ₄	Excluded	Minor emission source. Excluded for simplification.
		N ₂ O	Excluded	Minor emission source. Excluded for simplification.
		Other	Excluded	Not Applicable
	Electricity generation through wind energy	CO ₂	Excluded	The project activity is renewable energy project which will not create any emissions itself.
		CH ₄	Excluded	The project activity is renewable energy project which will not create any emissions itself.
		N ₂ O	Excluded	The project activity is renewable energy project which will not create any emissions itself.
		Other	Excluded	The project activity is renewable energy project which will not create any emissions itself.

2.4 Baseline Scenario

As per applied approved methodology, ACM 0002, version 12.2.0

If the project activity is the installation of a new grid-connected renewable power plant/unit, the baseline scenario is the following:

[Electricity delivered to the grid by the project activity would have otherwise been generated by the operation of grid-connected power plants and by the addition of new generation sources, as reflected in the combined margin (CM) calculations described in the "Tool to calculate the emission factor for an electricity system"].

Justification of Baseline scenario:

The project activity is the installation of new grid connected wind electric generators which are connected to the southern grid, of which the generation from 194 WTGs is wheeled by the project participants for captive consumption and the generation of 202 WTGs would sell to grid. The equivalent power generated by the Wind turbines would have been generated by the fossil fuel fired power plant dominant Southern regional grid.

Hence, the applicable baseline scenario is the **"electricity delivered to the grid by the project activity which would have otherwise been generated by the operation of grid-connected power plants and by the addition of new generation sources"**, as reflected in the combined margin (CM) calculations described in the "Tool to calculate the emission factor for an electricity system", version 02.2.1.

The combined margin calculations are based on the operating margin and build margin data. All data on the grid emission co-efficient calculation is taken from the publicly available website of 'Central Electrical Authority of India.

As per "Tool to calculate the emission factor for an electricity system", version- 02.2.1 the steps followed to calculate Combined margin of Southern regional grid is demonstrated in Section 3.

The key parameters and data sources are furnished below:

Variable	Data Source
EG _{PJ,y} – Total Net Electricity supplied to Grid by the Project activity	Records maintained by project proponent
Parameter	Data Source
EF _{grid,OM,y} - Operating Margin Emission Factor (tCO ₂ /MWh)	Baseline Carbon Dioxide Emission Database ⁴ from the Central Electricity Authority
EF _{grid,BM,y} - Build Margin Emission Factor (tCO ₂ /MWh)	Baseline Carbon Dioxide Emission Database ⁵ from the Central Electricity Authority
EF _{grid,CM,y} – Grid Emission Factor	Calculated as the weighted average of the operating margin and build margin

The Project activity will thus reduce the anthropogenic emissions of greenhouse gases (GHGs) in to the atmosphere associated with the equivalent amount of electricity generation. Hence, the emissions in the baseline scenario would be the emissions from the equivalent amount of electricity generated by the prevailing generation mix of the grid.

2.5 Additionality

As per 'Tool for the demonstration and assessment of additionality', version 06, the step-wise approach to demonstrate and assess additionality is presented below:

Step 1: Identification of alternatives to the project activity consistent with current laws and regulations

Here the realistic and credible alternatives to the project activity(s) are defined through the following Sub-steps:

Sub-step 1a: Defining alternatives to the project activity:

Following are the identified realistic and credible alternative scenarios for the project activity:

1. Proposed project activity (installation and operation of WTGs) is not undertaken as a VCS project activity;

The sub-bundle owners could have preceded the implementation of the project without VCU benefit. This is in compliance with all applicable legal and regulatory requirements and can be a part of the baseline. However, the Project activity is not feasible without VCU revenues as explained below in Step 2.

2. Continuation of current situation

The Sub-bundle owners would have continued without investment in Project activity with their usual business activities. The southern region grid would continue with the fossil fuel based power projects and this would result in GHG emissions. Hence, the new capacity add-on from a fossil fuel based power plant is appropriate, realistic & credible baseline alternative for the project activity.

Sub-step 1b: Consistency with mandatory laws and regulations:

⁴ http://www.cea.nic.in/reports/planning/cdm_co2/cdm_co2.htm

⁵ http://www.cea.nic.in/reports/planning/cdm_co2/cdm_co2.htm

The list of alternatives described in sub step 1a is in compliance with all mandatory applicable legal and regulatory requirements. Hence the proposed project activity is not the only alternative that is in compliance with all mandatory applicable legal and regulatory requirements.

The project activity has crossed sub-step 1 of additionality demonstration, and hence this assessment has moved to the next step 2 investment analysis. The project activity demonstrated additionality through investment analysis only and did not opt for barrier analysis.

Step 2: Investment analysis

It is demonstrated in this step that the project activity is not economically or financially feasible, without the revenue from the sale of Verified emission reductions (VERs).

To conduct the above analysis, following Sub-steps have been followed:

Sub-step 2a: Determination of appropriate analysis method

As the project generates income other than the VCS benefits (revenues from the sale of electricity to the grid or electricity bill saved due to wheeling of power), Option I that is the Simple Cost Analysis cannot be applied in this case. Among the two options - Investment Comparison analysis (Option II) and Benchmark analysis (Option III), the benchmark analysis has been applied for investment analysis as the alternative to the project activity does not require any investment on behalf of the project proponent and is neither in the control of the project proponent. The financial indicator chosen is the Equity Internal rate of return of the project activity.

Sub-step 2b: Option III. Apply Benchmark analysis

Selection of financial indicator:

The Internal rate of return (IRR) is one of the known financial indicators used by the bank, financial institutions and project developers for making investment decisions. The sub-bundle owner have hence identified Post tax Equity IRR (Internal rate of return) as the most appropriate financial indicator for the project and carried out an investment analysis of the project activity.

Choice of Benchmark value:

As per Para 12 of guidance on Assessment of Investment analysis, version 05, Annex 5 of EB 62 meeting report, it states that ***“In cases where a benchmark approach is used the applied benchmark shall be appropriate to the type of IRR calculated. Local commercial lending rates or weighted average costs of capital (WACC) are appropriate benchmarks for a project IRR. Required/expected returns on equity are appropriate benchmarks for equity IRR. Benchmarks supplied by relevant national authorities are also appropriate if the DOE can validate that they are applicable to the project activity and the type of IRR calculation presented.”***

PP has chosen Required/Expected returns on Equity as the benchmark as no other benchmark is more suitable than Required/Expected returns on Equity in cases where Equity IRR is used to demonstrate the Additionality.

CoE – Cost of Equity:

The Capital Asset Pricing Model (CAPM) approach is a generally accepted methodology for determining the Cost of Equity. CAPM is based on the portfolio theory of finance and is expressed by the following formula⁶

$$\text{CoE} = r_f + \text{Equity Beta } (\beta) * [E(r_m) - r_f]$$

Where:

- r_f - is the risk-free rate of return
- $E(r_m)$ - the expected rate of return on a market portfolio
- Equity Beta (β) - coefficient reflecting the volatility (risk) of the stock relative to the market, which measures the systematic risk of the stock

The **Risk free rate (r_f)** has been taken from the long term government bond rates prevailing prior to the investment decision of the project activity. The investment decision of WTGs included in the bundle has been made in FY 2007-08 & 2008-09. Hence the govt. bond rates prevailing prior to investment decision i.e. during 2006-07, 2007-08, 2008-09 and 2009-2010 has been considered.

Market Risk Premium ($E(r_m) - r_f$),

The market risk premium, as measured and applied in practice is the premium above the risk free rate is the return that investors expect to earn on a portfolio of equities. Equity indices are indicator of expected market return. With a view to eliminating the unsystematic risk associated with the projects totally, index containing 500 companies has been taken to represent the market return. A period starting since 1999 to 2007 has been considered to remove the impact of short term volatility. Selection of BSE 500 represent a more robust and efficient face of the market. BSE-500 Index is a broad-based Index constituting 500 companies across 20 sectors listed at the Exchange, representing approximately 93% of the total market capitalization on BSE and covers all 20 major industries of the economy. The BSE - 500 indices is scientifically calculated and the 500 companies are selected based on market capitalization, liquidity and balanced industry representation. Thus, this is the largest quantum of data (500 companies) available among all the other indices and provides the most comprehensive view of the Indian Capital Market. As per Para 13 of Guidelines on assessment of investment analysis, EB 62 Annex 5 meeting report, *"In the cases of projects which could be developed by an entity other than the project participant the benchmark should be based on parameters that are standard in the market. The DOE's validation of the benchmark shall also include its opinion on whether a company-specific benchmark or a benchmark based on parameters that are standard in the market is suitable in the context of the underlying project activity"*.

Thus, the PP has used the equity index BSE 500, which is one of the standard and most appropriate indices in the market.

The market risk premium is calculated as the difference between the expected return on a market portfolio (also called market return) and the risk-free return.

The expected rate of return on a market portfolio ($E(r_m)$)

The expected rate of return is the CAGR (compound annual growth rate) of BSE 500 calculated in the following manner:

$$\text{Expected Market return} = [(\text{index value at end} / \text{index value at beginning}) ^ {1 / \text{no. of years}}] - 1$$

The Expected market return at the time of investment decision for each WTG with different investment decision time has been estimated and shown in financial excel sheets.

⁶ Cost of Capital for Central Sector Utilities by Crisil Advisory Services

Equity Beta is the measure of the expected volatility of a particular stock relative to a well-diversified market portfolio. It indicates the sensitivity to market risk for the security. The beta of the stock or portfolio describes the relation of its returns with that of the financial market as a whole.

In order to estimate the cost of equity for any power generation company operating in India considering the specific characteristics of the project type and not linked to subjective profitability expectation or risk profile of the project promoter, beta values of power generating companies in India which is listed in the BSE 500 of stock exchange at the time of investment decision. The selected company has invested significantly in to the Wind power projects and also a mix of Public and private sector companies listed in BSE 500. Equity Beta values of selected companies of 5 years prior to investment decision have been sourced from Bloomberg⁷. The financial excel sheet gives equity beta value of power generating companies at the time of investment decision making:

For the realistic and conservative estimation of beta value, the average of five years of Beta value of five Power generating companies having diversified business portfolio listed in BSE 500 has been considered. The Lifetime of the project activity is 20 years and hence to evaluate realistic beta, the average of 5 years of beta value has been considered. The beta thus taken is appropriate as all the above mentioned companies have invested in power generation (including wind power) and are listed in the BSE 500 index. So, with respect to the decision making context and the project type, the beta considered is applicable.

The results are shown in the financial excel sheets.

Hence, Post tax Expected Return on Equity as benchmark has been evaluated as illustrated above for the respective WTGs.

The Sub-bundle Project participants have taken following assumptions for investment analyses as per the information available at the time of decision making along with related references:

⁷ The screen shots from Bloomberg is submitted to DOE for Validation

S.No	Name of the Company	Company code	No .of WTGs	Capacity of each WTG (in MW)	Total Capacity (in MW)	Benchmark return on Equity
1	A.P.A. Textiles India Pvt. Ltd.,	C0002	1	0.600	0.600	21.47%
2	AA Fashion Wear Pvt. Ltd.,	C0003	1	0.600	0.600	21.47%
3	Ambika Cotton mills Limited	C0005	8	1.500	12.000	21.88%
4	Angalakshmi Spinning Mill	C0006	2	0.600	1.200	21.47%
5	Annamalaiyar Spinners	C0007	1	0.600	0.600	21.29%
6	Arunachala Gounder Textile Mills Pvt. Ltd.,	C0012 (A)	1	0.850	0.850	22.32%
	Arunachala Gounder Textile Mills Pvt. Ltd.,	C0012 (B)	2	0.600	1.200	21.47%
7	Arun's Engineering Works	C0013	1	0.250	0.250	22.32%
8	B.M.M Paper Board (P) Ltd.,	C0014	1	0.850	0.850	21.47%
9	Bala Vimodhan Power Process Pvt. Ltd.,	C0015	1	0.225	0.225	22.32%
10	Balu Wind Power Pvt. Ltd.,	C0016	7	0.250	1.750	21.29%
11	BRN Jewellery	C0017	1	0.250	0.250	21.47%
12	BSM Wind Energy Pvt. Ltd.,	C0018	8	0.250	2.000	21.29%
13	C.M.B. Spinning Mills	C0021	1	0.600	0.600	21.29%
14	Chenduran Cotspin (India) Pvt. Ltd.,	C0022	2	0.850	1.700	21.29%
15	Chiranjeevi Wind Energy Ltd.,	C0024 (B)	3	0.250	0.750	21.47%
16	Chithiradevi	C0025	1	0.225	0.225	21.29%
17	Concorde Textiles	C0027(B)	1	0.600	0.600	22.28%

18	D.A.R. Paradise Retail Division	C0028	1	0.225	0.225	21.88%
19	Ever Mellow Energy (India) Pvt. Ltd.,	C0031	1	0.850	0.850	21.29%
20	Eveready Spinning Mills Pvt. Ltd.,	C0032 (B)	6	0.850	5.100	21.88%
21	Fab Colours	C0034	3	0.225	0.675	21.28%
22	Gene Apparels	C0035	2	0.225	0.450	22.01%
23	Gomuki Spinning Mills Pvt. Ltd.,	C0036	10	0.250	2.500	22.32%
24	Shiva Bharathi Syntex India Pvt. Ltd.,	C0038	1	0.250	0.250	21.47%
25	Hindustan Hardwares	C0039	1	0.800	0.800	21.47%
26	Hindustan Spinners	C0040	1	0.800	0.800	21.47%
27	Hindustan Textiles 'B' Unit	C0041	1	0.800	0.800	21.47%
28	Hotel Chandra Towers Ltd	C0042	2	0.250	0.500	22.32%
29	J.P.P. Mills Pvt. Ltd.,	C0043	2	0.850	1.700	22.32%
30	Jayanthi Textile Products Unit II	C0044 (B)	1	1.250	1.250	22.01%
31	K.A.S. Industries India Ltd.,	C0046	1	0.600	0.600	22.01%
32	K.A.S. Industries India Ltd.,	C0047	2	0.600	1.200	22.01%
33	K.S.R. Textile Mills Pvt. Ltd.,	C0048	1	0.800	0.800	22.32%
34	Karthi Rice Mill	C0050	1	0.225	0.225	21.28%
35	KPL Oil Mills Pvt. Ltd.,	C0051	1	0.250	0.250	21.47%
36	M.N. Easwaramurthi	C0053	2	0.225	0.450	21.28%
37	Mani Cotton Textiles	C0055	1	0.600	0.600	21.47%
38	Mani Spinning Mills Pvt. Ltd.,	C0056	4	0.850	3.400	21.88%
39	Marathal Spinners	C0057	1	0.600	0.600	21.29%
40	Marudhavel Industries Ltd.,	C0058	1	0.250	0.250	21.29%
41	Mefco Engineers Pvt. Ltd.,	C0059	6	0.250	1.500	22.32%
42	N Tex Apparel Pvt. Ltd.,	C0061	5	0.250	1.250	21.47%
43	P.A. Nanjappa Gounder	C0066	1	0.250	0.250	21.47%
44	P.K. Ganeshwar	C0067	9	0.225	2.025	21.29%

45	P.K.P.N. Spinning Mills Pvt. Ltd.,	C0068	1	1.650	1.650	22.01%
46	Pallipalayam Spinners Pvt. Ltd.,	C0071	3	0.600	1.800	21.47%
47	Pariyur Amman Logistics	C0072	2	0.225	0.450	22.32%
48	Pariyur Amman Spinning Mills Pvt. Ltd.,	C0073 (A)	1	0.225	0.225	22.32%
	Pariyur Amman Spinning Mills Pvt. Ltd.,	C0073 (B)	1	0.600	0.600	21.47%
49	Pramas Tea Industries	C0075	1	0.225	0.225	21.29%
50	Shristi Cotspinn (P) Ltd.,	C0076 (B)	1	0.800	0.800	22.01%
51	Premdurai Exports Pvt. Ltd.,	C0077	4	0.600	2.400	21.29%
52	R B Wovens Pvt. Ltd.,	C0078	2	0.800	1.600	22.32%
53	R. Padma Seenivasan	C0079	1	0.250	0.250	21.29%
54	R.G. Selvarathi Coolie Mill	C0080	1	0.225	0.225	21.28%
55	Raja Spinners	C0081	1	0.600	0.600	21.29%
56	Rajashree Spintex Pvt. Ltd.,	C0082	1	0.850	0.850	21.29%
57	Rasi G Energy Pvt. Ltd.,	C0084	1	1.500	1.500	22.32%
58	Ribas Fabs	C0085	1	0.250	0.250	22.32%
59	S. Velumani	C0087	1	0.250	0.250	22.36%
60	Sakthe Animal Feeds	C0089	1	0.250	0.250	22.32%
61	Sakthi Masala Pvt. Ltd.,	C0090	2	1.500	3.000	22.36%
62	Sakthi Murugan Roller Flour Mills Ltd.,	C0091	1	0.250	0.250	21.29%
63	Salona Cotspin Ltd.,	C0092 (B)	2	0.800	1.600	21.28%
64	Selvi Spinning Mill	C0096	1	0.800	0.800	22.32%
65	Senthil Hatcheries	C0097	2	0.225	0.450	22.32%
66	Shakthi Murugan Textiles	C0098	2	0.600	1.200	21.47%
67	Shiva Bharathi Syntex India Pvt. Ltd.,	C0099	2	0.225	0.450	22.01%
68	Shri Ramathal Spinners	C0100	1	0.600	0.600	21.29%
69	Shri Vaikunth Paper & Board (Pr) Ltd.,	C0101	1	0.850	0.850	22.32%
70	SNQS Internationals	C0103	1	0.600	0.600	21.29%

71	Speedline Spinners India Pvt. Ltd.,	C0105	1	0.800	0.800	22.01%
72	Sree Kailaii Spinners Pvt. Ltd.,	C0106	1	0.800	0.800	22.32%
73	Sri Balaji & Co.,	C0108	2	1.650	3.300	22.32%
74	Sri Dhanalakshmi Sizing & Spinning Mill	C0109 (A)	5	0.600	3.000	21.29%
75	Sri Iyyan Textile Mills Pvt. Ltd.,	C0110	1	0.850	0.850	22.32%
76	Sri Mahalakshmi Textiles	C0112	1	0.600	0.600	21.29%
77	Sri Manjulashmi Spinners	C0113	1	0.600	0.600	21.29%
78	Sri Navamani Wind Farms	C0114	2	0.250	0.500	22.01%
79	Sri Seethalakshmi Steel Castings Pvt. Ltd.,	C0115	1	0.850	0.850	21.29%
80	Sri Selvam Textiles	C0116 (A)	1	0.600	0.600	21.47%
	Sri Selvam Textiles	C0116 (B)	1	0.225	0.225	22.32%
81	Sri Siddivinayaka Cotton Corporation	C0117	1	1.650	1.650	22.32%
82	Sri Vigneswara Foundary	C0118	2	0.250	0.500	22.01%
83	Star Plastics	C0121	1	0.600	0.600	22.01%
84	Subam Papers Pvt. Ltd.,	C0122	2	0.850	1.700	21.47%
85	Sudharsan Exports	C0123	1	0.225	0.225	22.32%
86	Sun Industrial Automations & Solutions	C0125	1	0.600	0.600	21.35%
87	Suresh Textiles	C0126	1	0.250	0.250	22.32%
88	Sushrushah Medicare Centre Pvt. Ltd.,	C0127	1	0.250	0.250	22.32%
89	Swathi Hatcheries	C0128	1	0.250	0.250	22.32%
90	T.R. Venkatesan Chettiar & Sons Jewellers	C0130	1	0.250	0.250	22.32%
91	Tex Tech Industries (India) Pvt. Ltd.,	C0131	1	0.800	0.800	22.01%
92	Tirupur Thirukkumaran Textiles Pvt. Ltd.,	C0133	2	1.250	2.500	21.88%
93	Vetal Hi-Tech Industries	C0136	1	0.800	0.800	22.32%
94	Vetal Textiles & Electronics Pvt. Ltd.,	C0137	1	0.800	0.800	22.32%
95	Viking Textiles Pvt. Ltd.,	C0138	1	1.250	1.250	22.32%
96	VKSM Cotton Mills Ltd.,	C0139	1	0.800	0.800	22.01%

97	Wild Wind Renewables	C0141	1	0.250	0.250	21.47%
98	Yash Metal Resources Pvt. Ltd.,	C0142	1	0.600	0.600	21.39%
99	Yennarkay R. Selvarathnam	C0143	1	0.600	0.600	22.32%
100	Alagu Wind Mills	C00001	1	0.600	0.600	22.02%
101	Anand Textiles	C00002	2	0.850	1.700	22.02%
102	Anangoor Textile Mills Pvt. Ltd.,	C00003	1	0.850	0.850	19.89%
103	Angalakshmi Spinning Mill	C00004	1	0.600	0.600	21.59%
104	Annamalaiyar Spinners	C00005	1	0.600	0.600	21.63%
105	Arun Dye Chem	C00006	1	0.225	0.225	21.91%
106	Balu Exports	C00007	4	0.600	2.400	21.62%
107	Best Corporation Ltd.,	C00008 (A)	2	0.600	1.200	21.62%
	Best Corporation Ltd.,	C00008 (B)	4	0.600	2.400	19.89%
108	Bhagavathi Spinners	C00009	2	0.225	0.450	20.52%
109	Chenniappa Yarn Spinners Pvt. Ltd.,	C00010	2	0.850	1.700	22.62%
110	Cheran Spinner Ltd.,	C00011	2	0.850	1.700	21.24%
111	Chiranjilal Spinners Pvt. Ltd.,	C00012	1	0.850	0.850	21.59%
112	Chiranjeevi Wind Energy Ltd.,	C00013	1	0.250	0.250	21.63%
113	Chola Spinning Mills Pvt. Ltd.,	C00014	2	0.750	1.500	22.02%
114	Concorde Agencies	C00015	1	0.600	0.600	21.59%
115	Concorde Textiles	C00016	1	0.600	0.600	21.61%
116	Doller Industries Ltd.,	C00017	1	1.500	1.500	22.02%
117	Forknits	C00018	1	0.600	0.600	21.62%
118	G.R. Natarajan & Co.,	C00019	1	0.600	0.600	21.59%
119	Greenland Paper Mills Ltd.,	C00020	1	1.250	1.250	21.59%
120	GVS Spinners Pvt. Ltd.,	C00021	1	0.750	0.750	20.69%
121	Hariharan Spinners Ltd.,	C00022	1	0.850	0.850	20.69%

122	Hindustan Hardware	C00023	1	0.850	0.850	21.62%
123	Hindustan Spinners "B" Unit	C00024	1	0.850	0.850	21.62%
124	Hindustan Textiles	C00025	1	0.850	0.850	21.62%
125	Iswari Spinning Mills,	C00026	1	0.600	0.600	22.62%
126	Janaki Cotton Mills Ltd.,	C00027	1	0.600	0.600	19.93%
127	Jayachandra Bearings India Pvt. Ltd.,	C00028	1	0.250	0.250	19.89%
128	Jayavarma Textiles Pvt. Ltd.,	C00029	3	0.850	2.550	21.83%
129	JRE Valves & Pumps Pvt. Ltd.,	C00030 (A)	1	0.250	0.250	21.24%
	JRE Valves & Pumps Pvt. Ltd.,	C00030 (B)	1	0.750	0.750	20.50%
130	JVS Export	C00031	1	1.250	1.250	19.93%
131	K.A.S. Industries India Ltd.,	C00032	3	0.600	1.800	22.02%
132	K.S.R. Textile Mills Pvt. Ltd.,	C00033 (A)	1	0.800	0.800	19.89%
	K.S.R. Textile Mills Pvt. Ltd.,	C00033 (B)	1	0.250	0.250	19.89%
133	Kandhan Knits	C00034	1	0.850	0.850	22.02%
134	Karpagham Tex	C00035	1	0.600	0.600	21.24%
135	Kayaar Exports Pvt. Ltd.,	C00036	2	1.000	2.000	22.53%
136	Kesharinandan Knit Fabrics Pvt. Ltd.,	C00037	1	0.750	0.750	21.63%
137	Kurinji Spinning Mills Pvt. Ltd.,	C00038	1	0.850	0.850	20.52%
138	Kutti Spinners Pvt. Ltd.,	C00039	1	1.250	1.250	21.63%
139	Lambodhara Textiles Ltd.,	C00040	1	1.250	1.250	21.63%
140	Lax Blue Metals Pvt. Ltd.,	C00041	5	0.225	1.125	21.59%
141	Lucky Yarn Tex India Ltd.,	C00042	10	0.250	2.500	20.52%
142	M. Thiagarajan	C00043	1	0.750	0.750	21.59%
143	Madras Hardtools Pvt. Ltd.,	C00044	1	0.250	0.250	21.91%
144	Mothi Spinner Ltd.,	C00045	4	0.600	2.400	21.59%

		(A)				
	Mothi Spinner Ltd.,	C00045 (B)	2	0.750	1.500	18.35%
145	Murugan Textiles	C00046	2	0.850	1.700	20.52%
146	Muthuraam Poly Spin	C00047	2	0.225	0.450	20.52%
147	N. Chandran	C00048	1	0.850	0.850	22.02%
148	N. Danissh Plaastics	C00049	1	0.600	0.600	21.59%
149	N.Krishnasamy	C00050	4	0.250	1.000	21.62%
150	Narasu's Spinning Mills	C00051	1	1.250	1.250	22.62%
151	Neeraj Enterprises Pvt. Ltd.,	C00052	1	0.250	0.250	21.62%
152	NKCM Spinners Pvt. Ltd.,	C00053	1	0.750	0.750	22.02%
153	Novacom Digitronics Pvt. Ltd.,	C00054	2	0.250	0.500	20.52%
154	NSP Tex	C00055	1	0.250	0.250	22.02%
155	P.K. Ganeshwar	C00056	15	0.225	3.375	21.24%
156	Pallava Textiles Ltd.,	C00057	1	1.650	1.650	21.24%
157	PKPN Spinning Mills Pvt. Ltd.,	C00058	2	0.750	1.500	20.41%
158	Pon Pure Chem Pvt. Ltd.,	C00059	1	0.850	0.850	20.41%
159	Prabhu Textiles	C00060 (A)	1	0.225	0.225	20.41%
	Prabhu Textiles	C00060 (B)	1	0.600	0.600	21.62%
160	Prachidhi Spinners Pvt. Ltd.,	C00061	1	0.600	0.600	21.63%
161	Precot Meridian Ltd.,	C00062	2	1.500	3.000	21.24%
162	Rajashree Spintex Pvt. Ltd.,	C00063	1	0.850	0.850	22.62%
163	Raju Spinning Mills Pvt. Ltd.,	C00064	1	1.500	1.500	22.51%
164	Rasi G Energy Pvt. Ltd.,	C00065	3	1.500	4.500	21.62%
165	Sakthi Murugan Agro Foods Ltd.,	C00066	2	0.250	0.500	22.02%
166	Sakthi Murugan Roller Flour Mills Ltd.,	C00067	2	0.250	0.500	22.02%

167	Santhi Processing Unit Pvt. Ltd.,	C00068	3	0.250	0.750	19.89%
168	Sengunthur Mills Pvt. Ltd.,	C00069	1	1.250	1.250	21.63%
169	Senthil Hatcheries	C00070	2	0.225	0.450	21.24%
170	Senthil Nathan Spinning Mills Pvt. Ltd.,	C00071	1	0.800	0.800	22.51%
171	Seyadu Beedi Company	C00072	3	0.850	2.550	20.69%
172	Shri Manjulashmi Spinners	C00073	1	0.600	0.600	21.63%
173	Shri Rohith Spinners Pvt. Ltd.,	C00074	1	0.600	0.600	21.59%
174	SJLT Spinning Mills Pvt. Ltd.,	C00075	1	1.000	1.000	22.53%
175	SMP Textiles Mills Pvt. Ltd.,	C00076	1	0.600	0.600	21.59%
176	Sree Jagathguru Textiles Mills Pvt. Ltd.,	C00077	3	1.250	3.750	21.63%
			2	1.500	3.000	21.63%
177	Sree Kailaii Spinners Pvt. Ltd.,	C00078	2	0.225	0.450	22.02%
178	Sri Balaji Spinning Mills	C00079	2	0.250	0.500	22.53%
179	Sri Balaji Textiles	C00080	1	0.600	0.600	21.59%
180	Sri Dhanalakshmi Sizing & Spinning Mill	C00081 (A)	5	0.600	3.000	21.91%
	Sri Dhanalakshmi Sizing and Spinning Mill	C00081 (B)	5	0.600	3.000	22.02%
181	Sri Dhanalakshmi Sizing and Spinning Mill	C00081(C)	1	1.500	1.500	19.53%
182	Sri Jagannatha Spinners	C00082 (A)	1	0.600	0.600	19.89%
	Sri Jagannatha Spinners	C00082 (B)	1	0.600	0.600	21.24%
183	Sri Thangam Spinners India Pvt. Ltd.,	C00083	4	0.225	0.900	21.59%
184	Sri V Balaji Spinning Mills India Pvt. Ltd.,	C00084	1	0.250	0.250	22.53%
185	Sri Valliyarasi Yarns Pvt. Ltd.,	C00085	1	0.600	0.600	19.89%
186	Sri Vela Smelters Pvt. Ltd.,	C00086	1	0.850	0.850	20.52%
187	Sri Venkattalakshmi Textiles	C00087	1	0.225	0.225	21.59%
188	Sri Vinayakha Spinning Mills Pvt. Ltd.,	C00088	1	0.600	0.600	22.51%

189	Suriya Spinning Mills	C00089	1	0.250	0.250	22.53%
190	Tex Tech Indo (India) Pvt. Ltd.,	C00090	1	0.600	0.600	19.89%
191	Tirupur Cotton Company	C00091	1	0.250	0.250	21.91%
192	TT Industries	C00092 (A)	1	1.250	1.250	21.63%
	TT Industries	C00092 (B)	1	1.250	1.250	18.35%
193	Veejay Syntex Pvt. Ltd.,	C00093	1	0.800	0.800	21.32%
	Venus Textiles Service	C00094	3	0.850	2.550	21.83%
194	Viking Knitters	C00095 (A)	3	0.850	2.550	21.83%
	Viking Knitters	C00095 (B)	2	1.250	2.500	20.69%
195	Viking Textiles Pvt. Ltd.,	C00096	5	0.850	4.250	22.02%
196	VKSM Cotton Mills Ltd.,	C00097	1	0.850	0.850	21.83%
197	VSM Weaves India Ltd.,	C00098	4	0.600	2.400	22.02%
198	VXL Systems	C00099	2	0.800	1.600	21.62%
199	Water World	C00100	1	0.250	0.250	21.91%
200	Wild Wind Renewables	C00101	1	0.250	0.250	21.24%
201	Yash Metal & Alloys	C00102	1	0.600	0.600	21.83%

Input values

S.No	Name of the Company	Company code	No .of WTGs	Capacity of each WTG (in MW)	Total Project Cost as per Offer/MW including IDC (In INR Millions)	Plant Load Factor (PLF)	Equity (in %)	Interest Rate (in %)	Repayment period (in Years)	Moratorium period (in Months)	Income Tax rate	MAT	Surcharge	Cess
1	A.P.A. Textiles India Pvt. Ltd.,	C0002	1	0.600	61.15	22.17%	30.00%	11.50%	10.00	12.00	30.00%	10.00%	10.00%	3.00%
2	AA Fashion Wear Pvt. Ltd.,	C0003	1	0.600	64.00	22.82%	30.00%	11.50%	10.00	12.00	30.00%	10.00%	10.00%	3.00%
3	Ambika Cotton mills Limited	C0005	8	1.500	63.33	24.35%	30.00%	11.50%	10.00	12.00	30.00%	10.00%	10.00%	3.00%
4	Angalakshmi Spinning Mill	C0006	2	0.600	64.40	24.50%	30.00%	11.50%	10.00	12.00	30.00%	0.00%	10.00%	3.00%
5	Annamalaiyar Spinners	C0007	1	0.600	59.15	22.17%	30.00%	11.50%	10.00	12.00	30.00%	0.00%	10.00%	3.00%
6	Arunachala Gounder Textile Mills Pvt. Ltd.,	C0012 (A)	1	0.850	64.10	24.58%	30.00%	11.50%	10.00	12.00	30.00%	10.00%	10.00%	3.00%
	Arunachala Gounder Textile Mills Pvt. Ltd.,	C0012 (B)	2	0.600	59.90	22.84%	30.00%	11.50%	10.00	12.00	30.00%	10.00%	10.00%	3.00%
7	Arun's Engineering Works	C0013	1	0.250	58.65	22.82%	30.00%	11.50%	10.00	12.00	30.00%	0.00%	10.00%	3.00%
8	B.M.M Paper Board (P) Ltd.,	C0014	1	0.850	65.50	24.58%	30.00%	11.50%	10.00	12.00	30.00%	10.00%	10.00%	3.00%
9	Bala Vimodhan Power Process Pvt. Ltd.,	C0015	1	0.225	59.00	22.50%	30.00%	11.50%	10.00	12.00	30.00%	10.00%	10.00%	3.00%

10	Balu Wind Power Pvt. Ltd.,	C0016	7	0.250	59.84	22.10%	30.00%	11.50%	10.00	12.00	30.00%	10.00%	10.00%	3.00%
11	BRN Jewellery	C0017	1	0.250	56.82	21.93%	30.00%	11.50%	10.00	12.00	30.00%	0.00%	10.00%	3.00%
12	BSM Wind Energy Pvt. Ltd.,	C0018	8	0.250	61.00	22.10%	30.00%	11.50%	10.00	12.00	30.00%	10.00%	10.00%	3.00%
13	C.M.B. Spinning Mills	C0021	1	0.600	60.90	22.82%	30.00%	11.50%	10.00	12.00	30.00%	0.00%	10.00%	3.00%
14	Chenduran Cotspin (India) Pvt. Ltd.,	C0022	2	0.850	65.75	24.58%	30.00%	11.50%	10.00	12.00	30.00%	10.00%	10.00%	3.00%
15	Chiranjeevi Wind Energy Ltd.,	C0024 (B)	3	0.250	57.15	22.10%	30.00%	11.50%	10.00	12.00	30.00%	10.00%	10.00%	3.00%
16	Chithiradevi	C0025	1	0.225	58.50	22.50%	30.00%	11.50%	10.00	12.00	30.00%	0.00%	10.00%	3.00%
17	Concorde Textiles	C0027(B)	1	0.600	62.50	22.91%	30.00%	13.625%	10.00	12.00	30.00%	0.00%	10.00%	3.00%
18	D.A.R. Paradise Retail Division	C0028	1	0.225	57.88	22.20%	30.00%	11.50%	10.00	12.00	30.00%	0.00%	10.00%	3.00%
19	Ever Mellow Energy (India) Pvt. Ltd.,	C0031	1	0.850	65.14	24.58%	30.00%	11.50%	10.00	12.00	30.00%	10.00%	10.00%	3.00%
20	Eveready Spinning Mills Pvt. Ltd.,	C0032 (B)	6	0.850	63.00	24.58%	30.00%	11.50%	10.00	12.00	30.00%	10.00%	10.00%	3.00%
21	Fab Colours	C0034	3	0.225	58.50	22.35%	30.00%	11.50%	10.00	12.00	30.00%	0.00%	10.00%	3.00%
22	Gene Apparels	C0035	2	0.225	58.50	22.35%	30.00%	11.50%	10.00	12.00	30.00%	0.00%	10.00%	3.00%
23	Gomuki Spinning Mills Pvt. Ltd.,	C0036	10	0.250	59.50	21.93%	30.00%	11.50%	10.00	12.00	30.00%	10.00%	10.00%	3.00%
24	Shiva Bharathi Syntex India Pvt. Ltd.,	C0038	1	0.250	59.65	21.93%	30.00%	11.50%	10.00	12.00	30.00%	10.00%	10.00%	3.00%

25	Hindustan Hardwares	C0039	1	0.800	58.00	22.09%	30.00%	11.50%	10.00	12.00	30.00%	0.00%	10.00%	3.00%
26	Hindustan Spinners	C0040	1	0.800	58.00	22.09%	30.00%	11.50%	10.00	12.00	30.00%	0.00%	10.00%	3.00%
27	Hindustan Textiles 'B' Unit	C0041	1	0.800	58.00	22.09%	30.00%	11.50%	10.00	12.00	30.00%	0.00%	10.00%	3.00%
28	Hotel Chandra Towers Ltd	C0042	2	0.250	56.20	22.55%	30.00%	11.50%	10.00	12.00	30.00%	10.00%	10.00%	3.00%
29	J.P.P. Mills Pvt. Ltd.,	C0043	2	0.850	65.73	24.58%	30.00%	11.50%	10.00	12.00	30.00%	10.00%	10.00%	3.00%
30	Jayanthi Textile Products Unit II	C0044 (B)	1	1.250	65.55	24.06%	30.00%	11.50%	10.00	12.00	30.00%	0.00%	10.00%	3.00%
31	K.A.S. Industries India Ltd.,	C0046	1	0.600	59.90	22.80%	30.00%	11.50%	10.00	12.00	30.00%	10.00%	10.00%	3.00%
32	K.A.S. Industries India Ltd.,	C0047	2	0.600	62.40	22.80%	30.00%	11.50%	10.00	12.00	30.00%	10.00%	10.00%	3.00%
33	K.S.R. Textile Mills Pvt. Ltd.,	C0048	1	0.800	61.50	22.69%	30.00%	11.50%	10.00	12.00	30.00%	10.00%	10.00%	3.00%
34	Karthi Rice Mill	C0050	1	0.225	57.66	22.20%	30.00%	11.50%	10.00	12.00	30.00%	0.00%	10.00%	3.00%
35	KPL Oil Mills Pvt. Ltd.,	C0051	1	0.250	58.40	22.10%	30.00%	11.50%	10.00	12.00	30.00%	10.00%	10.00%	3.00%
36	M.N. Easwaramurthi	C0053	2	0.225	60.00	22.35%	30.00%	11.50%	10.00	12.00	30.00%	0.00%	10.00%	3.00%
37	Mani Cotton Textiles	C0055	1	0.600	61.00	22.48%	30.00%	11.50%	10.00	12.00	30.00%	0.00%	10.00%	3.00%
38	Mani Spinning Mills Pvt. Ltd.,	C0056	4	0.850	65.50	24.58%	30.00%	11.50%	10.00	12.00	30.00%	10.00%	10.00%	3.00%
39	Marathal Spinners	C0057	1	0.600	60.82	22.17%	30.00%	11.50%	10.00	12.00	30.00%	0.00%	10.00%	3.00%
40	Marudhavel Industries Ltd.,	C0058	1	0.250	59.33	22.10%	30.00%	11.50%	10.00	12.00	30.00%	10.00%	10.00%	3.00%
41	Mefco	C0059	6	0.250	61.88	22.87%	30.00%	11.50%	10.00	12.00	30.00%	10.00%	10.00%	3.00%

	Engineers Pvt. Ltd.,													
42	N Tex Apparel Pvt. Ltd.,	C0061	5	0.250	56.88	21.93%	30.00%	11.50%	10.00	12.00	30.00%	10.00%	10.00%	3.00%
43	P.A. Nanjappa Gounder	C0066	1	0.250	56.58	21.93%	30.00%	11.50%	10.00	12.00	30.00%	0.00%	10.00%	3.00%
44	P.K. Ganeshwar	C0067	9	0.225	58.69	22.50%	30.00%	11.50%	10.00	12.00	30.00%	0.00%	10.00%	3.00%
45	P.K.P.N. Spinning Mills Pvt. Ltd.,	C0068	1	1.650	69.44	26.76%	30.00%	11.50%	10.00	12.00	30.00%	10.00%	10.00%	3.00%
46	Pallipalayam Spinners Pvt. Ltd.,	C0071	3	0.600	62.12	22.84%	30.00%	11.50%	10.00	12.00	30.00%	10.00%	10.00%	3.00%
47	Pariyur Amman Logistics	C0072	2	0.225	57.80	22.20%	30.00%	11.50%	10.00	12.00	30.00%	0.00%	10.00%	3.00%
48	Pariyur Amman Spinning Mills Pvt. Ltd.,	C0073 (A)	1	0.225	59.10	22.20%	30.00%	11.50%	10.00	12.00	30.00%	10.00%	10.00%	3.00%
	Pariyur Amman Spinning Mills Pvt. Ltd.,	C0073 (B)	1	0.600	60.66	22.16%	30.00%	11.50%	10.00	12.00	30.00%	10.00%	10.00%	3.00%
49	Pramas Tea Industries	C0075	1	0.225	58.25	22.20%	30.00%	11.50%	10.00	12.00	30.00%	0.00%	10.00%	3.00%
50	Shristi Cotspinn (P) Ltd.,	C0076 (B)	1	0.800	60.50	22.09%	30.00%	11.50%	10.00	12.00	30.00%	10.00%	10.00%	3.00%
51	Premdurai Exports Pvt. Ltd.,	C0077	4	0.600	60.50	23.33%	30.00%	11.50%	10.00	12.00	30.00%	10.00%	10.00%	3.00%
52	R B Wovens Pvt. Ltd.,	C0078	2	0.800	59.00	22.69%	30.00%	11.50%	10.00	12.00	30.00%	10.00%	10.00%	3.00%
53	R. Padma Seenivasan	C0079	1	0.250	61.83	22.10%	30.00%	11.50%	10.00	12.00	30.00%	0.00%	10.00%	3.00%
54	R.G. Selvarathi Coolie Mill	C0080	1	0.225	57.23	22.20%	30.00%	11.50%	10.00	12.00	30.00%	0.00%	10.00%	3.00%

55	Raja Spinners	C0081	1	0.600	58.24	22.17%	30.00%	11.50%	10.00	12.00	30.00%	0.00%	10.00%	3.00%
56	Rajashree Spintex Pvt. Ltd.,	C0082	1	0.850	66.00	24.58%	30.00%	11.50%	10.00	12.00	30.00%	10.00%	10.00%	3.00%
57	Rasi G Energy Pvt. Ltd.,	C0084	1	1.500	69.15	26.40%	30.00%	11.50%	10.00	12.00	30.00%	10.00%	10.00%	3.00%
58	Ribas Fabs	C0085	1	0.250	58.92	22.59%	30.00%	11.50%	10.00	12.00	30.00%	0.00%	10.00%	3.00%
59	S. Velumani	C0087	1	0.250	60.00	22.82%	30.00%	11.50%	10.00	12.00	30.00%	0.00%	10.00%	3.00%
60	Sakthe Animal Feeds	C0089	1	0.250	57.05	21.93%	30.00%	11.50%	10.00	12.00	30.00%	0.00%	10.00%	3.00%
61	Sakthi Masala Pvt. Ltd.,	C0090	2	1.500	68.71	26.88%	30.00%	11.50%	10.00	12.00	30.00%	10.00%	10.00%	3.00%
62	Sakthi Murugan Roller Flour Mills Ltd.,	C0091	1	0.250	57.60	22.10%	30.00%	11.50%	10.00	12.00	30.00%	10.00%	10.00%	3.00%
63	Salona Cotspin Ltd.,	C0092 (B)	2	0.800	60.90	22.09%	30.00%	11.50%	10.00	12.00	30.00%	10.00%	10.00%	3.00%
64	Selvi Spinning Mill	C0096	1	0.800	63.69	22.69%	30.00%	11.50%	10.00	12.00	30.00%	0.00%	10.00%	3.00%
65	Senthil Hatcheries	C0097	2	0.225	60.00	22.35%	30.00%	11.50%	10.00	12.00	30.00%	0.00%	10.00%	3.00%
66	Shakthi Murugan Textiles	C0098	2	0.600	64.90	24.50%	30.00%	11.50%	10.00	12.00	30.00%	0.00%	10.00%	3.00%
67	Shiva Bharathi Syntex India Pvt. Ltd.,	C0099	2	0.225	60.85	22.20%	30.00%	11.50%	10.00	12.00	30.00%	10.00%	10.00%	3.00%
68	Shri Ramathal Spinners	C0100	1	0.600	58.84	22.17%	30.00%	11.50%	10.00	12.00	30.00%	0.00%	10.00%	3.00%
69	Shri Vaikunth Paper & Board (Pr) Ltd.,	C0101	1	0.850	65.64	24.58%	30.00%	11.50%	10.00	12.00	30.00%	10.00%	10.00%	3.00%
70	SNQS Internationals	C0103	1	0.600	60.55	22.84%	30.00%	11.50%	10.00	12.00	30.00%	0.00%	10.00%	3.00%

71	Speedline Spinners India Pvt. Ltd.,	C0105	1	0.800	60.10	22.69%	30.00%	11.50%	10.00	12.00	30.00%	10.00%	10.00%	3.00%
72	Sree Kailaii Spinners Pvt. Ltd.,	C0106	1	0.800	61.85	22.69%	30.00%	11.50%	10.00	12.00	30.00%	10.00%	10.00%	3.00%
73	Sri Balaji & Co.,	C0108	2	1.650	67.80	26.76%	30.00%	11.50%	10.00	12.00	30.00%	0.00%	10.00%	3.00%
74	Sri Dhanalakshmi Sizing & Spinning Mill	C0109 (A)	5	0.600	68.50	26.95%	30.00%	11.50%	10.00	12.00	30.00%	0.00%	10.00%	3.00%
75	Sri Iyyan Textile Mills Pvt. Ltd.,	C0110	1	0.850	65.14	24.58%	30.00%	11.50%	10.00	12.00	30.00%	10.00%	10.00%	3.00%
76	Sri Mahalakshmi Textiles	C0112	1	0.600	61.95	22.17%	30.00%	11.50%	10.00	12.00	30.00%	0.00%	10.00%	3.00%
77	Sri Manjulashmi Spinners	C0113	1	0.600	58.90	22.17%	30.00%	11.50%	10.00	12.00	30.00%	0.00%	10.00%	3.00%
78	Sri Navamani Wind Farms	C0114	2	0.250	57.30	21.93%	30.00%	11.50%	10.00	12.00	30.00%	0.00%	10.00%	3.00%
79	Sri Seethalakshmi Steel Castings Pvt. Ltd.,	C0115	1	0.850	65.00	24.58%	30.00%	11.50%	10.00	12.00	30.00%	10.00%	10.00%	3.00%
80	Sri Selvam Textiles	C0116 (A)	1	0.600	58.92	22.16%	30.00%	11.50%	10.00	12.00	30.00%	0.00%	10.00%	3.00%
	Sri Selvam Textiles	C0116 (B)	1	0.225	58.67	22.20%	30.00%	11.50%	10.00	12.00	30.00%	0.00%	10.00%	3.00%
81	Sri Siddivinayaka Cotton Corporation	C0117	1	1.650	67.80	26.76%	30.00%	11.50%	10.00	12.00	30.00%	0.00%	10.00%	3.00%
82	Sri Vigneswara Foundary	C0118	2	0.250	57.55	21.93%	30.00%	11.50%	10.00	12.00	30.00%	0.00%	10.00%	3.00%

83	Star Plastics	C0121	1	0.600	61.12	22.82%	30.00%	11.50%	10.00	12.00	30.00%	0.00%	10.00%	3.00%
84	Subam Papers Pvt. Ltd.,	C0122	2	0.850	65.88	24.58%	30.00%	11.50%	10.00	12.00	30.00%	10.00%	10.00%	3.00%
85	Sudharsan Exports	C0123	1	0.225	60.02	22.20%	30.00%	11.50%	10.00	12.00	30.00%	0.00%	10.00%	3.00%
86	Sun Industrial Automations & Solutions	C0125	1	0.600	62.84	24.50%	30.00%	13.625%	10.00	12.00	30.00%	0.00%	10.00%	3.00%
87	Suresh Textiles	C0126	1	0.250	60.56	22.40%	30.00%	11.50%	10.00	12.00	30.00%	0.00%	10.00%	3.00%
88	Sushrushah Medicare Centre Pvt. Ltd.,	C0127	1	0.250	62.50	23.67%	30.00%	11.50%	10.00	12.00	30.00%	10.00%	10.00%	3.00%
89	Swathi Hatcheries	C0128	1	0.250	62.15	22.40%	30.00%	11.50%	10.00	12.00	30.00%	0.00%	10.00%	3.00%
90	T.R. Venkatesan Chettiar & Sons Jewellers	C0130	1	0.250	58.00	21.93%	30.00%	11.50%	10.00	12.00	30.00%	0.00%	10.00%	3.00%
91	Tex Tech Industries (India) Pvt. Ltd.,	C0131	1	0.800	58.50	22.69%	30.00%	11.50%	10.00	12.00	30.00%	10.00%	10.00%	3.00%
92	Tirupur Thirukkumaran Textiles Pvt. Ltd.,	C0133	2	1.250	62.90	23.69%	30.00%	11.50%	10.00	12.00	30.00%	10.00%	10.00%	3.00%
93	Vetal Hi-Tech Industries	C0136	1	0.800	60.50	22.69%	30.00%	11.50%	10.00	12.00	30.00%	0.00%	10.00%	3.00%
94	Vetal Textiles & Electronics Pvt. Ltd.,	C0137	1	0.800	60.77	22.69%	30.00%	11.50%	10.00	12.00	30.00%	10.00%	10.00%	3.00%
95	Viking Textiles Pvt. Ltd.,	C0138	1	1.250	62.96	24.06%	30.00%	11.50%	10.00	12.00	30.00%	10.00%	10.00%	3.00%
96	VKSM Cotton Mills Ltd.,	C0139	1	0.800	61.00	22.69%	30.00%	11.50%	10.00	12.00	30.00%	10.00%	10.00%	3.00%

97	Wild Wind Renewables	C0141	1	0.250	57.00	21.93%	30.00%	11.50%	10.00	12.00	30.00%	0.00%	10.00%	3.00%
98	Yash Metal Resources Pvt. Ltd.,	C0142	1	0.600	63.80	24.50%	30.00%	13.625%	10.00	12.00	30.00%	10.00%	10.00%	3.00%
99	Yennarkay R. Selvarathnam	C0143	1	0.600	60.90	22.82%	30.00%	11.50%	10.00	12.00	30.00%	0.00%	10.00%	3.00%
100	Alagu Wind Mills	C00001	1	0.600	57.44	22.85%	30.00%	12.25%	10.00	12.00	30.00%	18.00%	7.50%	3.00%
101	Anand Textiles	C00002	2	0.850	65.05	23.71%	30.00%	12.25%	10.00	12.00	30.00%	18.00%	7.50%	3.00%
102	Anangoor Textile Mills Pvt. Ltd.,	C00003	1	0.850	68.52	23.71%	30.00%	12.25%	10.00	12.00	30.00%	18.00%	7.50%	3.00%
103	Angalakshmi Spinning Mill	C00004	1	0.600	56.63	23.04%	30.00%	11.50%	10.00	12.00	30.00%	18.00%	7.50%	3.00%
104	Annamalaiyar Spinners	C00005	1	0.600	63.85	22.85%	30.00%	11.50%	10.00	12.00	30.00%	18.00%	7.50%	3.00%
105	Arun Dye Chem	C00006	1	0.225	59.75	24.18%	30.00%	11.50%	10.00	12.00	30.00%	18.00%	7.50%	3.00%
106	Balu Exports	C00007	4	0.600	59.80	24.56%	30.00%	11.50%	10.00	12.00	30.00%	18.00%	7.50%	3.00%
107	Best Corporation Ltd.,	C00008 (A)	2	0.600	59.30	24.30%	30.00%	11.50%	10.00	12.00	30.00%	18.00%	7.50%	3.00%
	Best Corporation Ltd.,	C00008 (B)	4	0.600	54.54	23.12%	30.00%	12.25%	10.00	12.00	30.00%	18.00%	7.50%	3.00%
108	Bhagavathi Spinners	C00009	2	0.225	63.12	23.07%	30.00%	12.25%	10.00	12.00	30.00%	18.00%	7.50%	3.00%
109	Chenniappa Yarn Spinners Pvt. Ltd.,	C00010	2	0.850	65.05	23.71%	30.00%	11.50%	10.00	12.00	30.00%	18.00%	7.50%	3.00%
110	Cheran Spinner Ltd.,	C00011	2	0.850	65.55	23.80%	30.00%	11.50%	10.00	12.00	30.00%	18.00%	7.50%	3.00%
111	Chiranjilal Spinners Pvt.	C00012	1	0.850	66.99	23.71%	30.00%	11.50%	10.00	12.00	30.00%	18.00%	7.50%	3.00%

	Ltd.,													
112	Chiranjeevi Wind Energy Ltd.,	C00013	1	0.250	57.40	23.35%	30.00%	11.50%	10.00	12.00	30.00%	18.00%	7.50%	3.00%
113	Chola Spinning Mills Pvt. Ltd.,	C00014	2	0.750	60.97	22.08%	30.00%	12.25%	10.00	12.00	30.00%	18.00%	7.50%	3.00%
114	Concorde Agencies	C00015	1	0.600	55.58	23.04%	30.00%	11.50%	10.00	12.00	30.00%	18.00%	7.50%	3.00%
115	Concorde Textiles	C00016	1	0.600	55.58	23.04%	30.00%	11.50%	10.00	12.00	30.00%	18.00%	7.50%	3.00%
116	Doller Industries Ltd.,	C00017	1	1.500	69.56	25.05%	30.00%	12.25%	10.00	12.00	30.00%	18.00%	7.50%	3.00%
117	Forknits	C00018	1	0.600	59.38	22.90%	30.00%	11.50%	10.00	12.00	30.00%	18.00%	7.50%	3.00%
118	G.R. Natarajan & Co.,	C00019	1	0.600	65.25	26.88%	30.00%	11.50%	10.00	12.00	30.00%	18.00%	7.50%	3.00%
119	Greenland Paper Mills Ltd.,	C00020	1	1.250	55.52	22.81%	30.00%	11.50%	10.00	12.00	30.00%	18.00%	7.50%	3.00%
120	GVS Spinners Pvt. Ltd.,	C00021	1	0.750	61.70	22.08%	30.00%	12.25%	10.00	12.00	30.00%	18.00%	7.50%	3.00%
121	Hariharan Spinners Ltd.,	C00022	1	0.850	64.64	23.46%	30.00%	12.25%	10.00	12.00	30.00%	18.00%	7.50%	3.00%
122	Hindustan Hardwares	C00023	1	0.850	61.70	23.80%	30.00%	11.50%	10.00	12.00	30.00%	18.00%	7.50%	3.00%
123	Hindustan Spinners "B" Unit	C00024	1	0.850	62.90	23.80%	30.00%	11.50%	10.00	12.00	30.00%	18.00%	7.50%	3.00%
124	Hindustan Textiles	C00025	1	0.850	62.90	23.80%	30.00%	11.50%	10.00	12.00	30.00%	18.00%	7.50%	3.00%
125	Iswari Spinning Mills,	C00026	1	0.600	63.64	22.85%	30.00%	11.50%	10.00	12.00	30.00%	18.00%	7.50%	3.00%
126	Janaki Cotton Mills Ltd.,	C00027	1	0.600	61.90	23.08%	30.00%	13.00%	10.00	12.00	30.00%	18.50%	5.00%	3.00%
127	Jayachandra Bearings India	C00028	1	0.250	61.77	22.34%	30.00%	12.25%	10.00	12.00	30.00%	18.00%	7.50%	3.00%

	Pvt. Ltd.,													
128	Jayavarma Textiles Pvt. Ltd.,	C00029	3	0.850	65.78	23.71%	30.00%	12.25%	10.00	12.00	30.00%	18.00%	7.50%	3.00%
129	JRE Valves & Pumps Pvt. Ltd.,	C00030 (A)	1	0.250	61.80	22.34%	30.00%	11.50%	10.00	12.00	30.00%	18.00%	7.50%	3.00%
	JRE Valves & Pumps Pvt. Ltd.,	C00030 (B)	1	0.750	61.45	22.16%	30.00%	12.25%	10.00	12.00	30.00%	18.50%	5.00%	3.00%
130	JVS Export	C00031	1	1.250	59.22	22.01%	30.00%	13.00%	10.00	12.00	30.00%	18.50%	5.00%	3.00%
131	K.A.S. Industries India Ltd.,	C00032	3	0.600	63.15	23.04%	30.00%	12.25%	10.00	12.00	30.00%	18.00%	7.50%	3.00%
132	K.S.R. Textile Mills Pvt. Ltd.,	C00033 (A)	1	0.800	63.56	22.95%	30.00%	12.25%	10.00	12.00	30.00%	18.00%	7.50%	3.00%
	K.S.R. Textile Mills Pvt. Ltd.,	C00033 (B)	1	0.250	61.44	22.34%	30.00%	12.25%	10.00	12.00	30.00%	18.00%	7.50%	3.00%
133	Kandhan Knits	C00034	1	0.850	64.88	24.32%	30.00%	12.25%	10.00	12.00	30.00%	18.00%	7.50%	3.00%
134	Karpagham Tex	C00035	1	0.600	59.75	22.90%	30.00%	11.50%	10.00	12.00	30.00%	18.00%	7.50%	3.00%
135	Kayaar Exports Pvt. Ltd.,	C00036	2	1.000	61.88	25.66%	30.00%	11.50%	10.00	12.00	30.00%	18.00%	7.50%	3.00%
136	Kesharinandan Knit Fabrics Pvt. Ltd.,	C00037	1	0.750	59.13	23.11%	30.00%	11.50%	10.00	12.00	30.00%	18.00%	7.50%	3.00%
137	Kurinji Spinning Mills Pvt. Ltd.,	C00038	1	0.850	66.52	24.32%	30.00%	12.25%	10.00	12.00	30.00%	18.00%	7.50%	3.00%
138	Kutti Spinners Pvt. Ltd.,	C00039	1	1.250	58.38	23.80%	30.00%	11.50%	10.00	12.00	30.00%	18.00%	7.50%	3.00%
139	Lambodhara Textiles Ltd.,	C00040	1	1.250	62.12	22.42%	30.00%	11.50%	10.00	12.00	30.00%	18.00%	7.50%	3.00%
140	Lax Blue Metals Pvt. Ltd.,	C00041	5	0.225	58.95	23.07%	30.00%	11.50%	10.00	12.00	30.00%	18.00%	7.50%	3.00%
141	Lucky Yarn Tex India Ltd.,	C00042	10	0.250	62.14	22.34%	30.00%	12.25%	10.00	12.00	30.00%	18.00%	7.50%	3.00%

142	M. Thiagarajan	C00043	1	0.750	59.50	23.80%	30.00%	11.50%	10.00	12.00	30.00%	18.00%	7.50%	3.00%
143	Madras Hardtools Pvt. Ltd.,	C00044	1	0.250	62.08	23.35%	30.00%	11.50%	10.00	12.00	30.00%	18.00%	7.50%	3.00%
144	Mothi Spinner Ltd.,	C00045 (A)	4	0.600	63.11	23.04%	30.00%	11.50%	10.00	12.00	30.00%	18.00%	7.50%	3.00%
	Mothi Spinner Ltd.,	C00045 (B)	2	0.750	62.90	22.16%	30.00%	13.00%	10.00	12.00	30.00%	18.50%	5.00%	3.00%
145	Murugan Textiles	C00046	2	0.850	68.52	23.71%	30.00%	12.25%	10.00	12.00	30.00%	18.00%	7.50%	3.00%
146	Muthuraam Poly Spin	C00047	2	0.225	65.53	23.07%	30.00%	12.25%	10.00	12.00	30.00%	18.00%	7.50%	3.00%
147	N. Chandran	C00048	1	0.850	66.40	26.11%	30.00%	12.25%	10.00	12.00	30.00%	18.00%	7.50%	3.00%
148	N. Danissh Plaastics	C00049	1	0.600	63.42	22.85%	30.00%	11.50%	10.00	12.00	30.00%	18.00%	7.50%	3.00%
149	N.Krishnasamy	C00050	4	0.250	59.78	24.50%	30.00%	11.50%	10.00	12.00	30.00%	18.00%	7.50%	3.00%
150	Narasu's Spinning Mills	C00051	1	1.250	61.07	22.01%	30.00%	11.50%	10.00	12.00	30.00%	18.00%	7.50%	3.00%
151	Neeraj Enterprises Pvt. Ltd.,	C00052	1	0.250	59.96	23.86%	30.00%	11.50%	10.00	12.00	30.00%	18.00%	7.50%	3.00%
152	NKCM Spinners Pvt. Ltd.,	C00053	1	0.750	61.12	22.08%	30.00%	12.25%	10.00	12.00	30.00%	18.00%	7.50%	3.00%
153	Novacom Digitronics Pvt. Ltd.,	C00054	2	0.250	59.50	24.83%	30.00%	12.25%	10.00	12.00	30.00%	18.00%	7.50%	3.00%
154	NSP Tex	C00055	1	0.250	58.34	23.18%	30.00%	12.25%	10.00	12.00	30.00%	18.00%	7.50%	3.00%
155	P.K. Ganeshwar	C00056	15	0.225	58.24	24.18%	30.00%	11.50%	10.00	12.00	30.00%	18.00%	7.50%	3.00%
156	Pallava Textiles Ltd.,	C00057	1	1.650	69.57	25.33%	30.00%	11.50%	10.00	12.00	30.00%	18.00%	7.50%	3.00%
157	PKPN Spinning Mills Pvt. Ltd.,	C00058	2	0.750	61.12	22.08%	30.00%	12.25%	10.00	12.00	30.00%	18.00%	7.50%	3.00%
158	Pon Pure Chem	C00059	1	0.850	64.88	23.71%	30.00%	12.25%	10.00	12.00	30.00%	18.00%	7.50%	3.00%

	Pvt. Ltd.,													
159	Prabhu Textiles	C00060 (A)	1	0.225	62.99	23.00%	30.00%	12.25%	10.00	12.00	30.00%	18.00%	7.50%	3.00%
	Prabhu Textiles	C00060 (B)	1	0.600	63.83	22.89%	30.00%	11.50%	10.00	12.00	30.00%	18.00%	7.50%	3.00%
160	Prachidhi Spinners Pvt. Ltd.,	C00061	1	0.600	68.71	24.11%	30.00%	11.50%	10.00	12.00	30.00%	18.00%	7.50%	3.00%
161	Precot Meridian Ltd.,	C00062	2	1.500	69.21	25.20%	30.00%	11.50%	10.00	12.00	30.00%	18.00%	7.50%	3.00%
162	Rajashree Spintex Pvt. Ltd.,	C00063	1	0.850	65.88	23.71%	30.00%	11.50%	10.00	12.00	30.00%	18.00%	7.50%	3.00%
163	Raju Spinning Mills Pvt. Ltd.,	C00064	1	1.500	69.21	25.03%	30.00%	12.25%	10.00	12.00	30.00%	18.00%	7.50%	3.00%
164	Rasi G Energy Pvt. Ltd.,	C00065	3	1.500	69.99	25.20%	30.00%	11.50%	10.00	12.00	30.00%	18.00%	7.50%	3.00%
165	Sakthi Murugan Agro Foods Ltd.,	C00066	2	0.250	56.48	23.35%	30.00%	12.25%	10.00	12.00	30.00%	18.00%	7.50%	3.00%
166	Sakthi Murugan Roller Flour Mills Ltd.,	C00067	2	0.250	56.48	23.35%	30.00%	12.25%	10.00	12.00	30.00%	18.00%	7.50%	3.00%
167	Santhi Processing Unit Pvt. Ltd.,	C00068	3	0.250	62.91	22.88%	30.00%	12.25%	10.00	12.00	30.00%	18.00%	7.50%	3.00%
168	Sengunthur Mills Pvt. Ltd.,	C00069	1	1.250	63.47	22.81%	30.00%	11.50%	10.00	12.00	30.00%	18.00%	7.50%	3.00%
169	Senthil Hatcheries	C00070	2	0.225	63.45	23.05%	30.00%	11.50%	10.00	12.00	30.00%	18.00%	7.50%	3.00%
170	Senthil Nathan Spinning Mills Pvt. Ltd.,	C00071	1	0.800	64.62	23.31%	30.00%	12.25%	10.00	12.00	30.00%	18.00%	7.50%	3.00%
171	Seyadu Beedi	C00072	3	0.850	64.22	23.46%	30.00%	12.25%	10.00	12.00	30.00%	18.00%	7.50%	3.00%

	Company													
172	Shri Manjulashmi Spinners	C00073	1	0.600	63.54	22.85%	30.00%	11.50%	10.00	12.00	30.00%	18.00%	7.50%	3.00%
173	Shri Rohith Spinners Pvt. Ltd.,	C00074	1	0.600	63.18	22.85%	30.00%	11.50%	10.00	12.00	30.00%	18.00%	7.50%	3.00%
174	SJLT Spinning Mills Pvt. Ltd.,	C00075	1	1.000	63.16	25.66%	30.00%	11.50%	10.00	12.00	30.00%	18.00%	7.50%	3.00%
175	SMP Textiles Mills Pvt. Ltd.,	C00076	1	0.600	63.23	22.90%	30.00%	11.50%	10.00	12.00	30.00%	18.00%	7.50%	3.00%
176	Sree Jagathguru Textiles Mills Pvt. Ltd.,	C00077	3	1.250	62.88	22.81%	30.00%	11.50%	10.00	12.00	30.00%	18.00%	7.50%	3.00%
			2	1.500	69.21	25.05%								
177	Sree Kailai Spinners Pvt. Ltd.,	C00078	2	0.225	62.99	23.00%	30.00%	12.25%	10.00	12.00	30.00%	18.00%	7.50%	3.00%
178	Sri Balaji Spinning Mills	C00079	2	0.250	62.63	22.54%	30.00%	11.50%	10.00	12.00	30.00%	18.00%	7.50%	3.00%
179	Sri Balaji Textiles	C00080	1	0.600	63.17	22.89%	30.00%	11.50%	10.00	12.00	30.00%	18.00%	7.50%	3.00%
180	Sri Dhanalakshmi Sizing & Spinning Mill	C00081 (A)	5	0.600	61.38	25.20%	30.00%	11.50%	10.00	12.00	30.00%	18.00%	7.50%	3.00%
	Sri Dhanalakshmi Sizing and Spinning Mill	C00081 (B)	5	0.600	62.88	25.20%	30.00%	12.25%	10.00	12.00	30.00%	18.00%	7.50%	3.00%
181	Sri Dhanalakshmi Sizing and Spinning Mill	C00081(C)	1	1.500	64.88	24.77%	30.00%	13.00%	10.00	12.00	30.00%	18.50%	5.00%	3.00%

182	Sri Jagannatha Spinners	C00082 (A)	1	0.600	62.90	22.90%	30.00%	12.25%	10.00	12.00	30.00%	18.00%	7.50%	3.00%
	Sri Jagannatha Spinners	C00082 (B)	1	0.600	63.50	22.90%	30.00%	11.50%	10.00	12.00	30.00%	18.00%	7.50%	3.00%
183	Sri Thangam Spinners India Pvt. Ltd.,	C00083	4	0.225	63.39	23.00%	30.00%	11.50%	10.00	12.00	30.00%	18.00%	7.50%	3.00%
184	Sri V Balaji Spinning Mills India Pvt. Ltd.,	C00084	1	0.250	62.43	22.54%	30.00%	11.50%	10.00	12.00	30.00%	18.00%	7.50%	3.00%
185	Sri Valliyarasi Yarns Pvt. Ltd.,	C00085	1	0.600	63.35	23.12%	30.00%	12.25%	10.00	12.00	30.00%	18.00%	7.50%	3.00%
186	Sri Vela Smelters Pvt. Ltd.,	C00086	1	0.850	66.05	23.71%	30.00%	12.25%	10.00	12.00	30.00%	18.00%	7.50%	3.00%
187	Sri Venkattalakshmi Textiles	C00087	1	0.225	57.32	23.00%	30.00%	11.50%	10.00	12.00	30.00%	18.00%	7.50%	3.00%
188	Sri Vinayakha Spinning Mills Pvt. Ltd.,	C00088	1	0.600	63.20	23.04%	30.00%	12.25%	10.00	12.00	30.00%	18.00%	7.50%	3.00%
189	Suriya Spinning Mills	C00089	1	0.250	61.29	22.19%	30.00%	11.50%	10.00	12.00	30.00%	18.00%	7.50%	3.00%
190	Tex Tech Indo (India) Pvt. Ltd.,	C00090	1	0.600	63.25	23.08%	30.00%	12.25%	10.00	12.00	30.00%	18.00%	7.50%	3.00%
191	Tirupur Cotton Company	C00091	1	0.250	59.19	22.54%	30.00%	11.50%	10.00	12.00	30.00%	18.00%	7.50%	3.00%
192	TT Industries	C00092 (A)	1	1.250	60.33	22.81%	30.00%	11.50%	10.00	12.00	30.00%	18.00%	7.50%	3.00%
	TT Industries	C00092 (B)	1	1.250	60.33	22.81%	30.00%	13.00%	10.00	12.00	30.00%	18.50%	5.00%	3.00%
193	Veejay Syntex Pvt. Ltd.,	C00093	1	0.800	64.25	23.31%	30.00%	11.50%	10.00	12.00	30.00%	18.00%	7.50%	3.00%
	Venus Textiles Service	C00094	3	0.850	62.79	23.71%	30.00%	12.25%	10.00	12.00	30.00%	18.00%	7.50%	3.00%

194	Viking Knitters	C00095 (A)	3	0.850	62.93	23.71%	30.00%	12.25%	10.00	12.00	30.00%	18.00%	7.50%	3.00%
	Viking Knitters	C00095 (B)	2	1.250	59.50	22.81%	30.00%	12.25%	10.00	12.00	30.00%	18.00%	7.50%	3.00%
195	Viking Textiles Pvt. Ltd.,	C00096	5	0.850	62.93	23.71%	30.00%	12.25%	10.00	12.00	30.00%	18.00%	7.50%	3.00%
196	VKSM Cotton Mills Ltd.,	C00097	1	0.850	65.11	23.71%	30.00%	12.25%	10.00	12.00	30.00%	18.00%	7.50%	3.00%
197	VSM Weaves India Ltd.,	C00098	4	0.600	63.13	23.08%	30.00%	12.25%	10.00	12.00	30.00%	18.00%	7.50%	3.00%
198	VXL Systems	C00099	2	0.800	61.13	23.31%	30.00%	11.50%	10.00	12.00	30.00%	18.00%	7.50%	3.00%
199	Water World	C00100	1	0.250	62.08	23.35%	30.00%	11.50%	10.00	12.00	30.00%	18.00%	7.50%	3.00%
200	Wild Wind Renewables	C00101	1	0.250	59.13	23.60%	30.00%	11.50%	10.00	12.00	30.00%	18.00%	7.50%	3.00%
201	Yash Metal & Alloys	C00102	1	0.600	58.90	23.04%	30.00%	12.25%	10.00	12.00	30.00%	18.00%	7.50%	3.00%

Apart from VCS benefit, the Sub-bundle PPs have availed following benefits for their respective installed WTGs:

1. Exemption on Income tax on earning from the project u/sec 80IA for 10 years.
2. Accelerated Depreciation Benefit u/sec 32 Rules 5 @ 80% of the Project Cost on written down value method from the first year.

Based on the above assumptions⁸ and availed benefits, the investments made by all investors were evaluated to determine the financial returns from the project activity without consideration of VCS revenue. The individual Equity IRR has been evaluated for the bundle and found in the range of 7.46% to 12.70%.

The references of the above assumptions are:

Parameters	Reference
Name of Company	Offer
No of WTGs	Offer
WTG Capacity in KW	Offer
Project Cost (in millions)	Offers from Supplier
Plant Load Factor	As per third Party engineering Company contracted by TASMA to evaluate site specific PLF of each WTG in the bundle to further verify the assumed PLF by each investor at the time of investment decision.
O&M Cost (as % of Capital Cost)	TNERC Order no 01, dated 20/03/2009
Wheeling Charges (% of generation)	TNERC Order no 01, dated 20/03/2009
Insurance Charges (in % of capital cost)	TNERC Order no 01, dated 20/03/2009
Loan Processing Charges (in % of loan amt)	IREDA investment guidelines
Tariff for sale to TNEB/TANGEDCO (INR/KWh)	TNERC Order no 01, dated 20/03/2009
Revenue saving from electricity generation including Electricity duty - INR/kWh	Electricity Bills
Equity (%)	TNERC Order no 01, dated 20/03/2009
Debt (%)	TNERC Order no 01, dated 20/03/2009
Interest	SBI Prime Lending Rate
Loan Years	TNERC Order no 01, dated 20/03/2009

On the basis of above assumptions, the investments made by all investors were evaluated to determine the financial returns from the project activity without consideration of VCU's revenue. The individual Post tax Equity IRR evaluated is presented in the table below:

The above results indicate that the Equity IRR is below the benchmark Expected return on Equity and illustrates that additional revenue from VCUs is required for the project. Hence, the Project is additional.

Sensitivity analysis

Choice of parameter for variation:

⁸ The investment analysis sheet containing assumptions and evidences has been submitted to DOE for Validation.

To substantiate the robustness of the results obtained above the sensitivity analysis has also been conducted. As per Para 20 of “**Guidelines on the assessment of investment analysis**”, version 05, Annex 5 of EB 62 meeting report, the criteria for choosing the sensitivity analysis parameter is:

16. **Guidance:** “Only variables, including the initial investment cost, that constitute more than 20% of either total project costs or total project revenues should be subjected to reasonable variation (all parameters varied need not necessarily be subjected to both negative and positive variations of the same magnitude), and the results of this variation should be presented in the PDD and be reproducible in the associated spreadsheets. Where a DOE considers that a variable which constitute less than 20% has a material impact on the analysis they shall raise a corrective action request to include this variable in the sensitivity analysis”

Parameters contributing $\pm 20\%$ of revenue:

For this bundled wind project activity, the only source of revenue is the electricity bill saved due to wheeling of power i.e. captive consumption and the tariff as received from the EB for sale of electricity. This revenue is dependent on the power tariff and power generation as presented below:

Revenue = power tariff * power generation
 = power tariff * (installed capacity * No of operational hours/year * PLF)
 = power tariff * 236.05 MW * 8760 hours/year * PLF

Since the probability of variation in PLF is more as it is dependent on many variables like grid availability, wind speed, breakdown/shutdowns etc. it has been chosen as the parameter for variation which can directly affect the revenue.

Hence, parameters which can affect 20% of total revenue for this case are the power tariff and the PLF.

Parameters contributing $\pm 20\%$ of cost:

Parameters which can affect 20% of the total cost/revenue for this case are the investment cost and O&M cost.

Thus PLF, Power tariff, Project cost and O&M cost were the chosen parameters of variation for sensitivity analysis.

Range of variation of chosen parameters:

As per Para 21 of Guidance on assessment of investment analysis, version 05, “The DOE should assess in detail whether the range of variations is reasonable in the project context. Past trends may be a guide to determine the reasonable range. As a general point of departure variations in the sensitivity analysis should at least cover a range of +10% and -10%, unless this is not deemed appropriate in the context of the specific project circumstances. In cases where a scenario will result in the project activity passing the benchmark or becoming the most financially attractive alternative the DOE shall provide an assessment of the probability of the occurrence of this scenario in comparison to the likelihood of the assumptions in the presented investment analysis, taking into consideration correlations between the variables as well as the specific socio-economic and policy context of the project activity.”

The sensitivity analysis was carried on Equity IRR varying the O&M Cost, Power tariff, Project cost and PLF by $\pm 10\%$ following the guideline provided by EB in meeting no. 62, Annex 5.

The result of the sensitivity is presented in the table below:

S.No	Name of the Company	Company code	No .of WTGs	Capacity of each WTG (in MW)	Total Capacity (in MW)	Sensitivity Analysis Equity IRR								
						Base Equity IRR	PLF +10%	PLF -10%	Tariff +10%	Tariff -10%	Project Cost +10%	Project Cost -10%	O&M +10%	O&M -10%
1	A.P.A. Textiles India Pvt. Ltd.,	C0002	1	0.600	0.600	8.72%	11.73%	5.93%	11.82%	5.83%	6.21%	12.09%	8.57%	8.87%
2	AA Fashion Wear Pvt. Ltd.,	C0003	1	0.600	0.600	8.26%	11.17%	5.47%	11.26%	5.37%	5.74%	11.50%	8.10%	8.41%
3	Ambika Cotton mills Limited	C0005	8	1.500	12.000	10.46%	14.16%	7.43%	14.25%	7.37%	7.68%	14.62%	10.09%	10.88 %
4	Angalakshmi Spinning Mill	C0006	2	0.600	1.200	10.56%	14.30%	7.46%	14.42%	7.37%	7.73%	15.04%	10.39%	10.74 %
5	Annamalaiyar Spinners	C0007	1	0.600	0.600	10.61%	14.19%	7.59%	14.19%	7.59%	7.85%	14.65%	10.23%	10.99 %
6	Arunachala Gounder Textile Mills Pvt. Ltd.,	C0012 (A)	1	0.850	0.850	10.41%	14.11%	7.39%	14.23%	7.30%	7.64%	14.57%	10.24%	10.61 %
	Arunachala Gounder Textile Mills Pvt. Ltd.,	C0012 (B)	2	0.600	1.200	10.04%	13.60%	7.08%	13.72%	6.99%	7.34%	14.31%	9.88%	10.21 %
7	Arun's Engineering Works	C0013	1	0.250	0.250	11.84%	15.95%	8.59%	15.95%	8.59%	8.87%	16.45%	11.45%	12.23 %
8	B.M.M Paper Board (P) Ltd.,	C0014	1	0.850	0.850	9.75%	13.14%	6.83%	13.26%	6.75%	7.08%	13.59%	9.58%	9.91%
9	Bala Vimodhan Power Process Pvt. Ltd.,	C0015	1	0.225	0.225	10.60%	14.18%	7.58%	14.18%	7.58%	7.83%	14.63%	10.20%	10.96 %
10	Balu Wind Power Pvt. Ltd.,	C0016	7	0.250	1.750	9.08%	12.22%	6.30%	12.33%	6.21%	6.55%	12.65%	8.91%	9.25%
11	BRN Jewellery	C0017	1	0.250	0.250	11.57%	15.56%	8.37%	15.56%	8.37%	8.64%	16.05%	11.18%	11.95 %
12	BSM Wind Energy Pvt. Ltd.,	C0018	8	0.250	2.000	8.53%	11.49%	5.76%	11.58%	5.67%	6.04%	11.84%	8.38%	8.68%
13	C.M.B. Spinning Mills	C0021	1	0.600	0.600	10.60%	14.18%	7.58%	14.18%	7.58%	7.84%	14.64%	10.22%	10.98 %

14	Chenduran Cotspin (India) Pvt. Ltd.,	C0022	2	0.850	1.700	9.45%	12.74%	6.60%	12.85%	6.52%	6.84%	13.18%	9.29%	9.61%
15	Chiranjeevi Wind Energy Ltd.,	C0024 (B)	3	0.250	0.750	11.03%	14.81%	7.95%	14.81%	7.95%	8.22%	15.26%	10.67%	11.39 %
16	Chithiradevi	C0025	1	0.225	0.225	11.45%	15.39%	8.27%	15.39%	8.27%	8.55%	15.88%	11.06%	11.84 %
17	Concorde Textiles	C0027(B)	1	0.600	0.600	8.26%	11.06%	5.61%	11.06%	5.61%	5.89%	11.39%	7.93%	8.60%
18	D.A.R. Paradise Retail Division	C0028	1	0.225	0.225	11.36%	15.26%	8.20%	15.26%	8.20%	8.47%	15.74%	10.97%	11.74 %
19	Ever Mellow Energy (India) Pvt. Ltd.,	C0031	1	0.850	0.850	9.91%	13.39%	6.97%	13.51%	6.89%	7.23%	13.83%	9.75%	10.08 %
20	Eveready Spinning Mills Pvt. Ltd.,	C0032 (B)	6	0.850	5.100	11.03%	14.85%	7.97%	14.85%	7.97%	8.23%	15.31%	10.68%	11.39 %
21	Fab Colours	C0034	3	0.225	0.675	11.23%	15.07%	8.09%	15.07%	8.09%	8.36%	15.55%	10.84%	11.61 %
22	Gene Apparels	C0035	2	0.225	0.450	11.23%	15.07%	8.09%	15.07%	8.09%	8.36%	15.55%	10.84%	11.61 %
23	Gomuki Spinning Mills Pvt. Ltd.,	C0036	10	0.250	2.500	9.01%	12.13%	6.24%	12.25%	6.15%	6.50%	12.56%	8.86%	9.19%
24	Shiva Bharathi Syyntex India Pvt. Ltd.,	C0038	1	0.250	0.250	9.11%	12.26%	6.32%	12.37%	6.23%	6.59%	12.69%	8.96%	9.29%
25	Hindustan Hardwares	C0039	1	0.800	0.800	11.13%	14.93%	8.01%	14.93%	8.01%	8.28%	15.40%	10.74%	11.51 %
26	Hindustan Spinners	C0040	1	0.800	0.800	11.13%	14.93%	8.01%	14.93%	8.01%	8.28%	15.40%	10.74%	11.51 %
27	Hindustan Textiles 'B' Unit	C0041	1	0.800	0.800	11.13%	14.93%	8.01%	14.93%	8.01%	8.28%	15.40%	10.74%	11.51 %
28	Hotel Chandra Towers Ltd	C0042	2	0.250	0.500	11.87%	16.14%	8.56%	16.21%	8.51%	8.83%	16.65%	11.48%	12.29 %
29	J.P.P. Mills Pvt. Ltd.,	C0043	2	0.850	1.700	9.46%	12.75%	6.61%	12.87%	6.53%	6.85%	13.19%	9.30%	9.62%

30	Jayanthi Textile Products Unit II	C0044 (B)	1	1.250	1.250	9.43%	12.66%	6.51%	12.78%	6.41%	6.79%	13.11%	9.27%	9.60%
31	K.A.S. Industries India Ltd.,	C0046	1	0.600	0.600	10.53%	14.10%	7.53%	14.10%	7.53%	7.79%	14.55%	10.14%	10.90 %
32	K.A.S. Industries India Ltd.,	C0047	2	0.600	1.200	8.77%	11.78%	6.00%	11.88%	5.90%	6.28%	12.42%	8.61%	8.92%
33	K.S.R. Textile Mills Pvt. Ltd.,	C0048	1	0.800	0.800	9.23%	12.41%	6.42%	12.52%	6.33%	6.67%	12.84%	9.06%	9.40%
34	Karthi Rice Mill	C0050	1	0.225	0.225	11.48%	15.44%	8.30%	15.44%	8.30%	8.58%	15.93%	11.10%	11.87 %
35	KPL Oil Mills Pvt. Ltd.,	C0051	1	0.250	0.250	10.32%	13.85%	7.39%	13.85%	7.39%	7.64%	14.29%	9.96%	10.72 %
36	M.N. Easwaramurthi	C0053	2	0.225	0.450	10.41%	13.91%	7.43%	13.91%	7.43%	7.69%	14.36%	10.03%	10.79 %
37	Mani Cotton Textiles	C0055	1	0.600	0.600	10.08%	13.43%	7.16%	13.43%	7.16%	7.41%	13.88%	9.70%	10.46 %
38	Mani Spinning Mills Pvt. Ltd.,	C0056	4	0.850	3.400	9.81%	13.15%	6.98%	13.15%	6.98%	7.22%	13.58%	9.46%	10.17 %
39	Marathal Spinners	C0057	1	0.600	0.600	9.75%	12.95%	6.89%	12.95%	6.89%	7.14%	13.39%	9.37%	10.12 %
40	Marudhavel Industries Ltd.,	C0058	1	0.250	0.250	9.85%	13.16%	7.01%	13.16%	7.01%	7.25%	13.60%	9.50%	10.21 %
41	Mefco Engineers Pvt. Ltd.,	C0059	6	0.250	1.500	9.10%	12.25%	6.32%	12.37%	6.23%	6.57%	12.68%	8.94%	9.28%
42	N Tex Apparel Pvt. Ltd.,	C0061	5	0.250	1.250	10.94%	14.67%	7.86%	14.67%	7.86%	7.92%	15.13%	10.57%	11.30 %
43	P.A. Nanjappa Gounder	C0066	1	0.250	0.250	11.71%	15.76%	8.48%	15.76%	8.48%	8.76%	16.26%	11.32%	12.10 %
44	P.K. Ganeshwar	C0067	9	0.225	2.025	11.06%	14.87%	7.96%	14.87%	7.96%	8.23%	15.35%	10.68%	11.44 %
45	P.K.P.N. Spinning Mills Pvt. Ltd.,	C0068	1	1.650	1.650	10.39%	14.08%	7.36%	14.20%	7.27%	7.61%	14.54%	10.20%	10.58 %
46	Pallipalayam Spinners Pvt. Ltd.,	C0071	3	0.600	1.800	8.94%	12.03%	6.17%	12.15%	6.08%	6.45%	12.46%	8.79%	9.11%

47	Pariyur Amman Logistics	C0072	2	0.225	0.450	11.40%	15.33%	8.23%	15.33%	8.23%	8.51%	15.81%	11.02%	11.79 %
48	Pariyur Amman Spinning Mills Pvt. Ltd.,	C0073 (A)	1	0.225	0.225	9.78%	13.19%	6.86%	13.31%	6.78%	7.10%	13.63%	9.61%	9.94%
	Pariyur Amman Spinning Mills Pvt. Ltd.,	C0073 (B)	1	0.600	0.600	8.93%	12.00%	6.14%	12.10%	6.05%	6.43%	12.42%	8.78%	9.09%
49	Pramas Tea Industries	C0075	1	0.225	0.225	11.15%	14.96%	8.03%	14.96%	8.03%	8.30%	15.44%	10.76%	11.53 %
50	Shristi Cotspinn (P) Ltd.,	C0076 (B)	1	0.800	0.800	8.92%	11.98%	6.13%	12.08%	6.03%	6.41%	12.39%	8.76%	9.07%
51	Premdurai Exports Pvt. Ltd.,	C0077	4	0.600	2.400	10.67%	14.32%	7.64%	14.32%	7.64%	7.92%	14.77%	10.29%	11.03 %
52	R B Wovens Pvt. Ltd.,	C0078	2	0.800	1.600	10.59%	14.20%	7.57%	14.20%	7.57%	7.85%	14.65%	10.19%	10.95 %
53	R. Padma Seenivasan	C0079	1	0.250	0.250	9.17%	12.20%	6.41%	12.20%	6.41%	6.66%	12.56%	8.80%	9.54%
54	R.G. Selvarathi Coolie Mill	C0080	1	0.225	0.225	11.74%	15.80%	8.50%	15.80%	8.50%	8.78%	16.30%	11.35%	12.13 %
55	Raja Spinners	C0081	1	0.600	0.600	11.11%	14.90%	7.99%	14.90%	7.99%	8.27%	15.38%	10.72%	11.49 %
56	Rajashree Spintex Pvt. Ltd.,	C0082	1	0.850	0.850	9.52%	12.81%	6.65%	12.93%	6.58%	6.89%	13.25%	9.36%	9.68%
57	Rasi G Energy Pvt. Ltd.,	C0084	1	1.500	1.500	10.08%	13.66%	7.11%	13.78%	7.02%	7.37%	14.11%	9.92%	10.25 %
58	Ribas Fabs	C0085	1	0.250	0.250	11.34%	15.24%	8.19%	15.24%	8.19%	8.46%	15.72%	10.96%	11.73 %
59	S. Velumani	C0087	1	0.250	0.250	11.08%	14.86%	7.97%	14.86%	7.97%	8.24%	15.34%	10.70%	11.46 %
60	Sakthe Animal Feeds	C0089	1	0.250	0.250	11.43%	15.37%	8.26%	15.37%	8.26%	8.53%	15.85%	11.05%	11.82 %
61	Sakthi Masala Pvt. Ltd.,	C0090	2	1.500	3.000	11.12%	14.97%	8.04%	14.97%	8.04%	8.30%	15.43%	10.76%	11.48 %
62	Sakthi Murugan Roller Flour Mills Ltd.,	C0091	1	0.250	0.250	10.79%	14.45%	7.73%	14.45%	7.73%	8.01%	14.91%	10.39%	11.15 %

63	Salona Cotspin Ltd.,	C0092 (B)	2	0.800	1.600	8.56%	11.53%	5.79%	11.62%	5.70%	6.08%	11.89%	8.41%	8.71%
64	Selvi Spinning Mill	C0096	1	0.800	0.800	8.72%	11.77%	5.78%	11.87%	5.69%	6.08%	12.13%	8.56%	8.88%
65	Senthil Hatcheries	C0097	2	0.225	0.450	10.41%	13.91%	7.43%	13.91%	7.43%	7.69%	14.36%	10.03%	10.79 %
66	Shakthi Murugan Textiles	C0098	2	0.600	1.200	10.31%	13.94%	7.25%	14.06%	7.17%	7.52%	14.66%	10.14%	10.49 %
67	Shiva Bharathi Syyntex India Pvt. Ltd.,	C0099	2	0.225	0.450	8.90%	11.95%	6.10%	12.05%	6.01%	6.39%	12.36%	8.74%	9.05%
68	Shri Ramathal Spinners	C0100	1	0.600	0.600	10.78%	14.43%	7.73%	14.43%	7.73%	7.99%	14.89%	10.39%	11.16 %
69	Shri Vaikunth Paper & Board (Pr) Ltd.,	C0101	1	0.850	0.850	9.68%	13.05%	6.78%	13.17%	6.70%	7.03%	13.49%	9.52%	9.84%
70	SNQS Internationals	C0103	1	0.600	0.600	10.81%	14.48%	7.75%	14.48%	7.75%	8.02%	14.95%	10.43%	11.19 %
71	Speedline Spinners India Pvt. Ltd.,	C0105	1	0.800	0.800	9.93%	13.41%	6.98%	13.53%	6.90%	7.24%	13.86%	9.76%	10.09 %
72	Sree Kailai Spinners Pvt. Ltd.,	C0106	1	0.800	0.800	9.05%	12.17%	6.26%	12.28%	6.17%	6.54%	12.59%	8.90%	9.22%
73	Sri Balaji & Co.,	C0108	2	1.650	3.300	12.04%	16.27%	8.75%	16.27%	8.75%	9.04%	16.77%	11.65%	12.44 %
74	Sri Dhanalakshmi Sizing & Spinning Mill	C0109 (A)	5	0.600	3.000	11.93%	16.11%	8.66%	16.11%	8.66%	8.95%	16.61%	11.54%	12.32 %
75	Sri Iyyan Textile Mills Pvt. Ltd.,	C0110	1	0.850	0.850	9.91%	13.39%	6.97%	13.51%	6.89%	7.23%	13.83%	9.75%	10.08 %
76	Sri Mahalakshmi Textiles	C0112	1	0.600	0.600	8.85%	11.93%	5.91%	12.03%	5.82%	6.21%	12.30%	8.69%	9.01%
77	Sri Manjulashmi Spinners	C0113	1	0.600	0.600	10.74%	14.38%	7.70%	14.38%	7.70%	7.96%	14.85%	10.36%	11.12 %

78	Sri Navamani Wind Farms	C0114	2	0.250	0.500	11.28%	15.16%	8.14%	15.16%	8.14%	8.41%	15.64%	10.90%	11.67 %
79	Sri Seethalakshmi Steel Castings Pvt. Ltd.,	C0115	1	0.850	0.850	9.98%	13.48%	7.02%	13.60%	6.94%	7.29%	13.93%	9.81%	10.14 %
80	Sri Selvam Textiles	C0116 (A)	1	0.600	0.600	10.72%	14.34%	7.68%	14.34%	7.68%	7.94%	14.81%	10.34%	11.10 %
	Sri Selvam Textiles	C0116 (B)	1	0.225	0.225	10.91%	14.62%	7.84%	14.62%	7.84%	8.10%	15.09%	10.53%	11.29 %
81	Sri Siddivinayaka Cotton Corporation	C0117	1	1.650	1.650	12.04%	16.27%	8.75%	16.27%	8.75%	9.04%	16.77%	11.65%	12.44 %
82	Sri Vigneswara Foundry	C0118	2	0.250	0.500	11.14%	14.95%	8.02%	14.95%	8.02%	8.29%	15.43%	10.76%	11.53 %
83	Star Plastics	C0121	1	0.600	0.600	10.15%	13.67%	7.12%	13.80%	7.03%	7.38%	14.14%	9.98%	10.32 %
84	Subam Papers Pvt. Ltd.,	C0122	2	0.850	1.700	9.39%	12.65%	6.55%	12.77%	6.47%	6.79%	13.09%	9.24%	9.55%
85	Sudharsan Exports	C0123	1	0.225	0.225	9.85%	13.25%	6.88%	13.37%	6.80%	7.14%	13.70%	9.68%	10.02 %
86	Sun Industrial Automations & Solutions	C0125	1	0.600	0.600	9.76%	13.02%	6.95%	13.02%	6.95%	7.19%	13.75%	9.42%	10.11 %
87	Suresh Textiles	C0126	1	0.250	0.250	9.85%	13.25%	6.88%	13.37%	6.80%	7.14%	13.70%	9.68%	10.02 %
88	Sushrushah Medicare Centre Pvt. Ltd.,	C0127	1	0.250	0.250	10.35%	13.88%	7.41%	13.88%	7.41%	7.66%	14.32%	9.99%	10.75 %
89	Swathi Hatcheries	C0128	1	0.250	0.250	9.06%	12.19%	6.12%	12.29%	6.02%	6.42%	12.56%	8.90%	9.22%
90	T.R. Venkatesan Chettiar & Sons Jewellers	C0130	1	0.250	0.250	10.89%	14.59%	7.82%	14.59%	7.82%	8.08%	15.06%	10.50%	11.27 %
91	Tex Tech Industries (India) Pvt. Ltd.,	C0131	1	0.800	0.800	11.13%	14.94%	8.04%	14.94%	8.04%	8.30%	15.40%	10.77%	11.49 %

92	Tirupur Thirukkumaran Textiles Pvt. Ltd.,	C0133	2	1.250	2.500	9.67%	13.06%	6.77%	13.18%	6.70%	7.02%	13.50%	9.51%	9.83%
93	Vetal Hi-Tech Industries	C0136	1	0.800	0.800	10.63%	14.22%	7.61%	14.22%	7.61%	7.87%	14.68%	10.25%	11.01 %
94	Vetal Textiles & Electronics Pvt. Ltd.,	C0137	1	0.800	0.800	9.92%	13.26%	7.07%	13.26%	7.07%	7.31%	13.70%	9.57%	10.28 %
95	Viking Textiles Pvt. Ltd.,	C0138	1	1.250	1.250	10.11%	13.70%	7.14%	13.82%	7.05%	7.40%	14.41%	9.95%	10.28 %
96	VKSM Cotton Mills Ltd.,	C0139	1	0.800	0.800	9.48%	12.76%	6.62%	12.88%	6.55%	6.86%	13.20%	9.32%	9.64%
97	Wild Wind Renewables	C0141	1	0.250	0.250	11.46%	15.41%	8.28%	15.41%	8.28%	8.56%	15.89%	11.07%	11.85 %
98	Yash Metal Resources Pvt. Ltd.,	C0142	1	0.600	0.600	9.02%	12.01%	6.33%	12.01%	6.33%	6.56%	12.40%	8.67%	9.35%
99	Yennarkay R. Selvarathnam	C0143	1	0.600	0.600	10.60%	14.18%	7.58%	14.18%	7.58%	7.84%	14.64%	10.22%	10.98 %
100	Alagu Wind Mills	C00001	1	0.600	0.600	10.46%	14.03%	7.52%	14.03%	7.52%	7.76%	14.46%	10.13%	10.79 %
101	Anand Textiles	C00002	2	0.850	1.700	11.66%	15.75%	8.36%	15.86%	8.27%	8.65%	16.21%	11.45%	11.88 %
102	Anangoor Textile Mills Pvt. Ltd.,	C00003	1	0.850	0.850	10.12%	13.68%	7.13%	13.78%	7.07%	7.40%	14.11%	9.96%	10.28 %
103	Angalakshmi Spinning Mill	C00004	1	0.600	0.600	11.96%	15.98%	8.69%	15.98%	8.69%	8.96%	16.43%	11.55%	12.38 %
104	Annamalaiyar Spinners	C00005	1	0.600	0.600	12.02%	16.16%	8.61%	16.27%	8.52%	8.91%	16.63%	11.80%	12.24 %
105	Arun Dye Chem	C00006	1	0.225	0.225	11.75%	15.73%	8.52%	15.73%	8.52%	8.81%	16.18%	11.34%	12.17 %
106	Balu Exports	C00007	4	0.600	2.400	12.02%	16.02%	8.70%	16.02%	8.70%	8.97%	16.48%	11.60%	12.44 %
107	Best Corporation Ltd.,	C00008 (A)	2	0.600	1.200	12.24%	16.30%	8.88%	16.30%	8.88%	8.91%	16.76%	11.82%	12.66 %

	Best Corporation Ltd.,	C00008 (B)	4	0.600	2.400	12.41%	16.48%	8.96%	16.48%	8.96%	9.23%	16.95%	12.00%	12.82 %
108	Bhagavathi Spinners	C00009	2	0.225	0.450	11.99%	16.14%	8.62%	16.25%	8.53%	8.89%	16.61%	11.78%	12.21 %
109	Chenniappa Yarn Spinners Pvt. Ltd.,	C00010	2	0.850	1.700	12.54%	16.75%	8.96%	16.86%	8.89%	9.24%	17.23%	12.32%	12.76 %
110	Cheran Spinner Ltd.,	C00011	2	0.850	1.700	12.38%	16.57%	8.86%	16.68%	8.78%	9.14%	17.05%	12.16%	12.60 %
111	Chiranjilal Spinners Pvt. Ltd.,	C00012	1	0.850	0.850	11.57%	15.65%	8.29%	15.76%	8.22%	8.58%	16.11%	11.36%	11.79 %
112	Chiranjeevi Wind Energy Ltd.,	C00013	1	0.250	0.250	11.95%	15.97%	8.68%	15.97%	8.68%	8.95%	16.42%	11.54%	12.37 %
113	Chola Spinning Mills Pvt. Ltd.,	C00014	2	0.750	1.500	11.41%	15.45%	8.16%	15.56%	8.09%	8.47%	15.91%	11.21%	11.62 %
114	Concorde Agencies	C00015	1	0.600	0.600	12.70%	16.83%	9.18%	16.83%	9.18%	9.46%	17.30%	12.28%	13.12 %
115	Concorde Textiles	C00016	1	0.600	0.600	12.70%	16.83%	9.18%	16.83%	9.18%	9.46%	17.30%	12.28%	13.12 %
116	Doller Industries Ltd.,	C00017	1	1.500	1.500	11.20%	15.19%	8.02%	15.30%	7.94%	8.29%	15.66%	11.00%	11.40 %
117	Forknits	C00018	1	0.600	0.600	10.19%	13.65%	7.25%	13.65%	7.25%	7.54%	14.07%	9.82%	10.53 %
118	G.R. Natarajan & Co.,	C00019	1	0.600	0.600	12.45%	16.54%	9.02%	16.54%	9.02%	9.29%	17.00%	12.03%	12.87 %
119	Greenland Paper Mills Ltd.,	C00020	1	1.250	1.250	12.35%	16.42%	8.95%	16.42%	8.95%	8.98%	16.88%	11.93%	12.77 %
120	GVS Spinners Pvt. Ltd.,	C00021	1	0.750	0.750	11.18%	15.16%	8.01%	15.27%	7.94%	8.27%	15.63%	10.98%	11.38 %
121	Hariharan Spinners Ltd.,	C00022	1	0.850	0.850	11.71%	15.82%	8.40%	15.93%	8.30%	8.70%	16.28%	11.50%	11.93 %
122	Hindustan Hardwares	C00023	1	0.850	0.850	10.20%	13.65%	7.25%	13.65%	7.25%	7.55%	14.07%	9.82%	10.53 %
123	Hindustan Spinners "B" Unit	C00024	1	0.850	0.850	9.57%	12.86%	6.81%	12.86%	6.81%	7.04%	13.27%	9.24%	9.97%

124	Hindustan Textiles	C00025	1	0.850	0.850	9.57%	12.86%	6.81%	12.86%	6.81%	7.04%	13.27%	9.24%	9.97%
125	Iswari Spinning Mills,	C00026	1	0.600	0.600	12.15%	16.32%	8.72%	16.43%	8.63%	9.00%	16.79%	11.93%	12.37%
126	Janaki Cotton Mills Ltd.,	C00027	1	0.600	0.600	11.62%	15.65%	8.33%	15.76%	8.25%	8.59%	16.11%	11.42%	11.83%
127	Jayachandra Bearings India Pvt. Ltd.,	C00028	1	0.250	0.250	11.57%	15.65%	8.29%	15.76%	8.21%	8.61%	16.12%	11.37%	11.79%
128	Jayavarma Textiles Pvt. Ltd.,	C00029	3	0.850	2.550	11.24%	15.23%	8.04%	15.34%	7.96%	8.32%	15.70%	11.03%	11.44%
129	JRE Valves & Pumps Pvt. Ltd.,	C00030 (A)	1	0.250	0.250	12.43%	16.64%	8.91%	16.75%	8.83%	9.19%	17.12%	12.21%	12.65%
	JRE Valves & Pumps Pvt. Ltd.,	C00030 (B)	1	0.750	0.750	11.14%	15.09%	7.96%	15.20%	7.88%	8.25%	15.54%	10.94%	11.35%
130	JVS Export	C00031	1	1.250	1.250	7.46%	10.10%	5.07%	10.10%	5.07%	5.30%	10.67%	7.17%	7.79%
131	K.A.S. Industries India Ltd.,	C00032	3	0.600	1.800	11.70%	15.79%	8.39%	15.90%	8.30%	8.68%	16.26%	11.49%	11.92%
132	K.S.R. Textile Mills Pvt. Ltd.,	C00033 (A)	1	0.800	0.800	11.51%	15.58%	8.25%	15.69%	8.17%	8.55%	16.04%	11.31%	11.72%
	K.S.R. Textile Mills Pvt. Ltd.,	C00033 (B)	1	0.250	0.250	11.79%	15.90%	8.45%	16.01%	8.36%	8.75%	16.37%	11.57%	12.00%
133	Kandhan Knits	C00034	1	0.850	0.850	8.73%	11.65%	6.09%	11.65%	6.09%	6.32%	12.03%	8.39%	9.05%
134	Karpagham Tex	C00035	1	0.600	0.600	10.00%	13.39%	7.10%	13.39%	7.10%	7.36%	13.80%	9.60%	10.35%
135	Kayaar Exports Pvt. Ltd.,	C00036	2	1.000	2.000	12.40%	16.46%	8.96%	16.46%	8.96%	9.23%	16.93%	11.98%	12.82%
136	Kesharinandan Knit Fabrics Pvt. Ltd.,	C00037	1	0.750	0.750	10.58%	14.20%	7.62%	14.20%	7.62%	7.87%	14.64%	10.25%	10.91%
137	Kurinji Spinning Mills Pvt. Ltd.,	C00038	1	0.850	0.850	12.01%	16.15%	8.63%	16.26%	8.54%	8.90%	16.63%	11.79%	12.22%
138	Kutti Spinners Pvt. Ltd.,	C00039	1	1.250	1.250	11.73%	15.69%	8.51%	15.69%	8.51%	8.77%	16.52%	11.32%	12.15%
139	Lambodhara Textiles Ltd.,	C00040	1	1.250	1.250	12.14%	16.29%	8.70%	16.40%	8.61%	8.97%	17.04%	11.92%	12.36%

140	Lax Blue Metals Pvt. Ltd.,	C00041	5	0.225	1.125	10.62%	14.26%	7.65%	14.26%	7.65%	7.68%	14.69%	10.28%	10.95 %
141	Lucky Yarn Tex India Ltd.,	C00042	10	0.250	2.500	11.14%	15.12%	7.97%	15.22%	7.90%	8.24%	15.58%	10.94%	11.34 %
142	M. Thiagarajan	C00043	1	0.750	0.750	11.31%	15.21%	8.19%	15.21%	8.19%	8.47%	15.66%	10.94%	11.72 %
143	Madras Hardtools Pvt. Ltd.,	C00044	1	0.250	0.250	9.41%	12.63%	6.68%	12.63%	6.68%	6.90%	13.03%	9.08%	9.77%
144	Mothi Spinner Ltd.,	C00045 (A)	4	0.600	2.400	12.60%	16.83%	9.01%	16.94%	8.93%	9.29%	17.31%	12.38%	12.82 %
	Mothi Spinner Ltd.,	C00045 (B)	2	0.750	1.500	9.56%	12.95%	6.68%	13.05%	6.61%	6.94%	13.36%	9.41%	9.72%
145	Murugan Textiles	C00046	2	0.850	1.700	9.94%	13.44%	6.99%	13.54%	6.92%	7.24%	13.87%	9.77%	10.09 %
146	Muthuraam Poly Spin	C00047	2	0.225	0.450	10.64%	14.43%	7.60%	14.53%	7.53%	7.86%	14.88%	10.47%	10.80 %
147	N. Chandran	C00048	1	0.850	0.850	10.12%	13.55%	7.21%	13.55%	7.21%	7.48%	13.97%	9.77%	10.45 %
148	N. Danissh Plaastics	C00049	1	0.600	0.600	12.29%	16.48%	8.82%	16.59%	8.74%	9.10%	16.96%	12.07%	12.51 %
149	N.Krishnasamy	C00050	4	0.250	1.000	12.25%	16.30%	8.88%	16.30%	8.88%	9.15%	16.76%	11.83%	12.67 %
150	Narasu's Spinning Mills	C00051	1	1.250	1.250	12.08%	16.22%	8.66%	16.33%	8.57%	8.93%	16.97%	11.86%	12.30 %
151	Neeraj Enterprises Pvt. Ltd.,	C00052	1	0.250	0.250	11.12%	14.98%	8.06%	14.98%	8.06%	8.32%	15.43%	10.78%	11.53 %
152	NKCM Spinners Pvt. Ltd.,	C00053	1	0.750	0.750	11.53%	15.60%	8.26%	15.71%	8.18%	8.57%	16.07%	11.33%	11.74 %
153	Novacom Digitronics Pvt. Ltd.,	C00054	2	0.250	0.500	12.11%	16.15%	8.78%	16.15%	8.78%	9.05%	16.60%	11.70%	12.51 %
154	NSP Tex	C00055	1	0.250	0.250	10.43%	13.98%	7.49%	13.98%	7.49%	7.73%	14.41%	10.10%	10.75 %
155	P.K. Ganeshwar	C00056	15	0.225	3.375	12.45%	16.51%	8.99%	16.51%	8.99%	9.26%	16.98%	12.03%	12.86 %
156	Pallava Textiles	C00057	1	1.650	1.650	12.49%	16.70%	8.94%	16.81%	8.86%	9.22%	17.18%	12.27%	12.71 %

	Ltd.,													%
157	PKPN Spinning Mills Pvt. Ltd.,	C00058	2	0.750	1.500	11.32%	15.34%	8.10%	15.45%	8.02%	8.39%	15.80%	11.12%	11.53%
158	Pon Pure Chem Pvt. Ltd.,	C00059	1	0.850	0.850	8.02%	10.77%	5.55%	10.77%	5.55%	5.77%	11.10%	7.71%	8.37%
159	Prabhu Textiles	C00060 (A)	1	0.225	0.225	11.96%	16.10%	8.59%	16.21%	8.50%	8.87%	16.57%	11.74%	12.17%
	Prabhu Textiles	C00060 (B)	1	0.600	0.600	12.10%	16.26%	8.68%	16.37%	8.59%	8.97%	16.73%	11.88%	12.32%
160	Prachidhi Spinners Pvt. Ltd.,	C00061	1	0.600	0.600	11.24%	15.26%	8.07%	15.37%	8.00%	8.33%	15.72%	11.04%	11.45%
161	Precot Meridian Ltd.,	C00062	2	1.500	3.000	12.50%	16.70%	8.94%	16.81%	8.86%	9.22%	17.18%	12.28%	12.72%
162	Rajashree Spintex Pvt. Ltd.,	C00063	1	0.850	0.850	12.25%	16.43%	8.79%	16.54%	8.70%	9.07%	16.90%	12.03%	12.47%
163	Raju Spinning Mills Pvt. Ltd.,	C00064	1	1.500	1.500	11.36%	15.39%	8.13%	15.50%	8.05%	8.43%	15.85%	11.16%	11.57%
164	Rasi G Energy Pvt. Ltd.,	C00065	3	1.500	4.500	12.04%	16.18%	8.63%	16.29%	8.54%	8.91%	16.65%	11.82%	12.26%
165	Sakthi Murugan Agro Foods Ltd.,	C00066	2	0.250	0.500	11.75%	15.72%	8.54%	15.72%	8.54%	8.80%	16.18%	11.36%	12.15%
166	Sakthi Murugan Roller Flour Mills Ltd.,	C00067	2	0.250	0.500	11.75%	15.72%	8.54%	15.72%	8.54%	8.80%	16.18%	11.36%	12.15%
167	Santhi Processing Unit Pvt. Ltd.,	C00068	3	0.250	0.750	11.80%	15.91%	8.46%	16.02%	8.37%	8.76%	16.38%	11.58%	12.01%
168	Sengunthur Mills Pvt. Ltd.,	C00069	1	1.250	1.250	11.97%	16.09%	8.57%	16.20%	8.48%	8.85%	16.84%	11.75%	12.18%
169	Senthil Hatcheries	C00070	2	0.225	0.450	8.44%	11.27%	5.89%	11.27%	5.89%	6.10%	11.65%	8.10%	8.81%
170	Senthil Nathan Spinning Mills Pvt. Ltd.,	C00071	1	0.800	0.800	11.47%	15.53%	8.22%	15.64%	8.14%	8.52%	16.00%	11.27%	11.68%
171	Seyadu Beedi	C00072	3	0.850	2.550	11.76%	15.86%	8.43%	15.96%	8.34%	8.71%	16.32%	11.54%	11.97%

	Company													%
172	Shri Manjulashmi Spinners	C00073	1	0.600	0.600	12.22%	16.39%	8.77%	16.50%	8.68%	9.04%	16.87%	12.00%	12.44 %
173	Shri Rohith Spinners Pvt. Ltd.,	C00074	1	0.600	0.600	12.45%	16.66%	8.92%	16.77%	8.85%	9.20%	17.14%	12.23%	12.67 %
174	SJLT Spinning Mills Pvt. Ltd.,	C00075	1	1.000	1.000	11.90%	15.91%	8.64%	15.91%	8.64%	8.91%	16.36%	11.49%	12.32 %
175	SMP Textiles Mills Pvt. Ltd.,	C00076	1	0.600	0.600	12.51%	16.72%	8.96%	16.84%	8.88%	9.24%	17.21%	12.29%	12.73 %
176	Sree Jagathguru Textiles Mills Pvt. Ltd.,	C00077	3	1.250	3.750	12.32%	16.50%	8.82%	16.61%	8.74%	9.10%	16.97%	11.88%	12.74 %
			2	1.500	3.000									
177	Sree Kailai Spinners Pvt. Ltd.,	C00078	2	0.225	0.450	11.96%	16.10%	8.59%	16.21%	8.50%	8.87%	16.57%	11.74%	12.17 %
178	Sri Balaji Spinning Mills	C00079	2	0.250	0.500	12.25%	16.43%	8.79%	16.54%	8.70%	9.07%	16.90%	12.03%	12.47 %
179	Sri Balaji Textiles	C00080	1	0.600	0.600	12.53%	16.75%	8.98%	16.86%	8.90%	9.26%	17.23%	12.31%	12.75 %
180	Sri Dhanalakshmi Sizing & Spinning Mill	C00081 (A)	5	0.600	3.000	12.01%	16.01%	8.69%	16.01%	8.69%	8.96%	16.47%	11.59%	12.43 %
	Sri Dhanalakshmi Sizing and Spinning Mill	C00081 (B)	5	0.600	3.000	10.42%	14.01%	7.49%	14.01%	7.49%	7.73%	14.44%	10.09%	10.75 %
181	Sri Dhanalakshmi Sizing and Spinning Mill	C00081 (C)	1	1.500	1.500	8.19%	10.99%	5.64%	10.99%	5.64%	5.86%	11.34%	7.86%	8.49%
182	Sri Jagannatha Spinners	C00082 (A)	1	0.600	0.600	11.84%	15.96%	8.50%	16.07%	8.40%	8.79%	16.43%	11.62%	12.05 %
	Sri Jagannatha Spinners	C00082 (B)	1	0.600	0.600	12.33%	16.52%	8.85%	16.63%	8.77%	9.12%	17.00%	12.11%	12.55 %

183	Sri Thangam Spinners India Pvt. Ltd.,	C00083	4	0.225	0.900	12.58%	16.81%	9.01%	16.92%	8.93%	9.29%	17.30%	12.36%	12.80 %
184	Sri V Balaji Spinning Mills India Pvt. Ltd.,	C00084	1	0.250	0.250	12.38%	16.58%	8.88%	16.69%	8.80%	9.15%	17.06%	12.16%	12.60 %
185	Sri Valliyarasi Yarns Pvt. Ltd.,	C00085	1	0.600	0.600	11.94%	16.07%	8.57%	16.18%	8.48%	8.85%	16.54%	11.72%	12.15 %
186	Sri Vela Smelters Pvt. Ltd.,	C00086	1	0.850	0.850	11.29%	15.31%	8.09%	15.41%	8.02%	8.37%	15.77%	11.09%	11.49 %
187	Sri Venkattalakshmi Textiles	C00087	1	0.225	0.225	11.43%	15.35%	8.27%	15.35%	8.27%	8.57%	15.80%	11.04%	11.84 %
188	Sri Vinayakha Spinning Mills Pvt. Ltd.,	C00088	1	0.600	0.600	11.89%	16.02%	8.54%	16.13%	8.45%	8.82%	16.49%	11.68%	12.11 %
189	Suriya Spinning Mills	C00089	1	0.250	0.250	12.49%	16.71%	8.95%	16.82%	8.87%	9.23%	17.19%	12.27%	12.71 %
190	Tex Tech Indo (India) Pvt. Ltd.,	C00090	1	0.600	0.600	11.93%	16.07%	8.57%	16.18%	8.48%	8.85%	16.54%	11.71%	12.15 %
191	Tirupur Cotton Company	C00091	1	0.250	0.250	9.78%	13.12%	6.96%	13.12%	6.96%	7.19%	13.53%	9.42%	10.16 %
192	TT Industries	C00092 (A)	1	1.250	1.250	9.31%	12.52%	6.59%	12.52%	6.59%	6.82%	13.24%	8.98%	9.68%
	TT Industries	C00092 (B)	1	1.250	1.250	7.93%	10.65%	5.44%	10.65%	5.44%	5.64%	11.27%	7.58%	8.25%
193	Veejay Syntex Pvt. Ltd.,	C00093	1	0.800	0.800	12.58%	16.81%	9.01%	16.92%	8.93%	9.29%	17.29%	12.36%	12.80 %
	Venus Textiles Service	C00094	3	0.850	2.550	8.69%	11.63%	6.05%	11.63%	6.05%	6.31%	12.01%	8.38%	9.01%
194	Viking Knitters	C00095 (A)	3	0.850	2.550	8.63%	11.54%	6.01%	11.54%	6.01%	6.25%	11.92%	8.30%	8.95%
	Viking Knitters	C00095 (B)	2	1.250	2.500	9.09%	12.21%	6.42%	12.21%	6.42%	6.64%	12.61%	8.77%	9.44%
195	Viking Textiles Pvt. Ltd.,	C00096	5	0.850	4.250	8.63%	11.54%	6.01%	11.54%	6.01%	6.25%	11.92%	8.30%	8.95%
196	VKSM Cotton Mills Ltd.,	C00097	1	0.850	0.850	11.85%	15.97%	8.50%	16.08%	8.41%	8.79%	16.44%	11.63%	12.06 %

197	VSM Weaves India Ltd.,	C00098	4	0.600	2.400	11.79%	15.89%	8.45%	16.00%	8.36%	8.73%	16.35%	11.57%	12.00 %
198	VXL Systems	C00099	2	0.800	1.600	9.56%	12.85%	6.78%	12.85%	6.78%	7.01%	13.26%	9.21%	9.95%
199	Water World	C00100	1	0.250	0.250	9.41%	12.63%	6.68%	12.63%	6.68%	6.90%	13.03%	9.08%	9.77%
200	Wild Wind Renewables	C00101	1	0.250	0.250	11.23%	15.12%	8.14%	15.12%	8.14%	8.40%	15.57%	10.87%	11.64 %
201	Yash Metal & Alloys	C00102	1	0.600	0.600	9.97%	13.34%	7.07%	13.34%	7.07%	7.35%	13.75%	9.59%	10.30 %

It is shown through the above analysis that even at the best PLF, Power tariff, low O&M Cost and low Project cost also, the project IRR without VCUs revenue for each WTG investment does not meet the benchmark value. As can be seen from above, the Project activity without VCUs revenue is not a financially viable option and it can be considered as additional.

Steps 2a, 2b, 2c are passed satisfactorily. Proceed to step 4

Step 4: Common practice analysis

As per **Tool for the demonstration and assessment of additionality, version 06**, following are the sub-steps involved in common practice analysis:

Sub-step 4a: Analyze other activities similar to the proposed project activity:

- (1) Provide an analysis of any other activities that are operational and that are similar to the proposed project activity. Projects are considered similar if they are in the same country/region and/or rely on a broadly similar technology, are of a similar scale, and take place in a comparable environment with respect to regulatory framework, investment climate, access to technology, access to financing, etc.

In the context of the present project activity, the following parameters are defined in line with paragraphs 5 – 10 of this approved methodological tool:

Measure: As per paragraph 6, the project activity falls under the following measure:

“(b) Switch of technology with or without change of energy source (including energy efficiency improvement as well as use of **renewable energies**);”

Stepwise approach to common practice analysis:

Output: As per paragraph 7, “power generation” may be considered to be the output in the context of the project activity.

Step 1: Calculate applicable output range as +/-50% of the design output or capacity of the proposed project activity.

The capacity of the project activity is 236.050 MW. Therefore, the applicable output range as defined in the step is +/-50% of the installed capacity of the proposed project activity (236.050 MW). Hence, the applicable output range will be 118 MW to 355 MW considered for common practice analysis.

Step 2: In the applicable geographical area, identify all plants that deliver the same output or capacity, within the applicable output range calculated in Step 1, as the proposed project activity and have started commercial operation before the start date of the project (N_{all}). Registered CDM project activities and projects activities undergoing validation shall not be included in this step.

Tamilnadu is selected as the applicable geographical area as the tariff regulations are different from other states and tariff and other rules are formulated and implemented by TNERC, a nodal agency for Tamilnadu. In the identified geographical area defined above for the purpose of common practice analysis and considered electricity generation using wind energy is an output.

All the plants that have installed capacities in the range outlined above in Step 1 in the applicable geographical area is as follows⁹

Technology	Projects in Tamilnadu under applicable capacity range	Projects excluding CDM/VCS projects in applicable capacity range (N_{all})
Thermal	29	29
Hydro	4	4
Nuclear	2	2
Wind*	1	0
Solar	0	0
Biomass	0	0
Tidal-Mechanical & Thermal	0	0
Geothermal	0	0
Total	36	$N_{all} = 35$

* applied for CDM

Step 3: Within plants identified in step 2, identify those that apply technologies different than the technology applied in the proposed project activity (N_{diff}).

Different technologies in the context of common practice are technologies that deliver the same output (**Electricity generation**) and differ in the context of **Energy source** used (**Option a out of options a, b, c, d and e**).

Technology	N_{diff}
Thermal	29
Hydro	4
Nuclear	2
Wind*	0
Solar	0
Biomass	0
Tidal-Mechanical & Thermal	0
Geothermal	0
Total	$N_{diff} = 35$

Step 4: Calculate factor $F = 1 - N_{diff}/N_{all}$ representing the share of plants using technology similar to the technology used in the proposed project activity in all plants that deliver the same output or capacity as the proposed project activity.

The proposed project activity is a common practice within a sector in the applicable geographical area if both the following conditions are fulfilled:

(a) the factor F is greater than 0.2, and

(b) $N_{all} - N_{diff}$ is greater than 3.

⁹ The detailed worksheet is submitted to DOE for Validation.

$$a) F = 1 - N_{diff}/N_{all}$$

$$F = 1 - (35/35) = 1 - 1 = 0$$

Therefore, F is not greater than 0.2

$$b) N_{all} - N_{diff} = 35 - 35 = 0$$

Therefore, $N_{all} - N_{diff}$ is not greater than 3

The proposed project activity is a common practice if both the conditions are satisfied. Since both the conditions are not satisfied, the proposed project activity is thus not a common practice within the sector in the applicable geographic area.

Sub-step 4b: Discuss any similar options that are occurring:

From sub-step 4a, it is clear that similar projects without CDM/VCS consideration are not widely observed or carried out. Hence, sub-step 4b is not applicable.

Therefore, as per Para 47 of the approved methodological tool, the present project activity is not a “common practice” within a sector in the applicable geographical area.

The above discussions show that wind power development is not a common practice in the State of Tamilnadu and the Project activity is not financially attractive. Hence, the Project activity is additional. In view of the above, the PP had considered CDM/VCS as a source of additional revenue to improve financial viability of the project while deciding to invest in the Project activity.

2.6 Methodology Deviations

The project activity has not sought any methodology deviations

3 QUANTIFICATION OF GHG EMISSION REDUCTIONS AND REMOVALS

3.1 Baseline Emissions

Baseline emissions include only CO₂ emissions from electricity generation in fossil fuel fired power plants that are displaced due to the project activity. The methodology assumes that all project electricity generation above baseline levels would have been generated by existing grid-connected power plants and the addition of new grid-connected power plants. The baseline emissions are to be calculated as follows:

$$BE_y = EG_{PJ,y} \times EF_{grid,CM,y}$$

Where:

BE_y	= Baseline emissions in year y (tCO ₂ /yr)
$EG_{PJ,y}$	= Quantity of net electricity generation that is produced and fed into the grid as a result of the implementation of the VCS project activity in year y (MWh/yr)
$EF_{grid,CM,y}$	= Combined margin CO ₂ emission factor for grid connected power generation in year y calculated using the latest version of the “Tool to calculate the emission factor for an electricity system” (tCO ₂ /MWh)

Calculation of $EG_{PJ,y}$

Since the project activity is the installation of a new grid-connected renewable power plant at a site where no renewable power plants were operated prior to the implementation of the project activity, then:

$$EG_{PJ,y} = EG_{facility,y}$$

Where:

$EG_{PJ,y}$ = Quantity of net electricity generation that is produced and fed into the grid as a result of the implementation of the VCS project activity in year y (MWh/yr)
 $EG_{facility,y}$ = Quantity of net electricity generation supplied by the project plant/unit to the grid in year y (MWh/yr)

Calculation of $EF_{grid,CM,y}$

According to the Tool to calculate the emission factor for an electricity system, version 02.2.1, EF_{CO_2} i.e. baseline emission factor (EF_{CO_2}) is calculated as a combined margin (CM), consisting of the combination of operating margin (OM) and build margin (BM) factors according to the below steps.

Calculations for this combined margin are based on data from an official source and are publicly available.

The project is located in the state of Tamilnadu and will be feeding the electricity in the Southern regional grid. Therefore the proposed project would have impact on all the generation facilities in this grid. Thus all the power generation facilities connected to this grid form the boundary for the purpose of baseline estimation. The Southern regional grid is also connected with other regional grid i.e. NEWNE grid, however, the net exchange of energy within the regional grids is very small and negligible and hence other regional grids are not included in the boundary for estimation of baseline emissions.

As per “**Tool to calculate the emission factor for an electricity system**”, version – 02.2.1, the calculation of Combined margin for Southern regional grid are as follows:

Step 1: Identify the relevant electricity systems

A **project electricity system** is defined by the spatial extent of the power plants that are physically connected through transmission and distribution lines to the project activity (e.g. the renewable power plant location or the consumers where electricity is being saved) and that can be dispatched without significant transmission constraints.

The Indian electricity system is divided into two regional grids, viz. NEWNE grid and Southern Regional grid. Each grid covers several states. The project activity is installed in Tamilnadu which is connected to the Southern regional electricity grid and is the “project electricity system”.

Step 2: Choose whether to include off-grid power plants in the project electricity system

The PP has chosen Option I to calculate operating margin and build margin factor i.e. only grid power plants is included in the calculation.

Step 3: Select a method to determine operating margin (OM)

The calculation of the operating margin emission factor ($EF_{grid,OM,y}$) is based on one of the following methods:

- a) Simple OM, or

- b) Simple adjusted OM, or
- c) Dispatch data analysis OM, or
- d) Average OM.

Due to non-availability of archived dispatch data in the public domain for the Southern region grid, 'Dispatch Data Analysis' (1c) has not been chosen, though it should be the first methodological choice.

As per Tool to calculate emission factor of an electricity system, version-02.2.1, the simple operating margin (Simple OM) can be used only if low-cost/must-run resources constitute less than 50% of total grid generation in (a) average of the five most recent years, or 2) based on long-term averages for hydroelectricity production.

From the available information published by CEA "CO₂ database for Indian Power sector", it can be seen from the table below that low cost/must run sources for Southern regional Grid accounts for less than 50% of the total generation in the last five years. Hence PP has chosen an ex ante option for calculation of the OM with a 3-year generation weighted average, based on the most recent data available at the time of submission of the VCS-PD to the DOE for validation.

Share of Must-Run(Hydro/Nuclear) (% of Net Generation)					
Year/Region	2005-06	2006-07	2007-08	2008-09	2009-10
NEWNE	18.5%	19.0%	17.4%	15.9%	17.6%
South	28.3%	27.1%	22.8%	20.6%	21.0%
India	20.9%	21.0%	18.7%	17.1%	18.4%

Step 4: Calculate the operating margin emission factor according to the selected method

The simple OM emission factor is calculated as the generation-weighted average CO₂ emissions per unit net electricity generation (tCO₂/MWh) of all generating power plants serving the system, not including low-cost/must-run power plants/units. The simple OM may be calculated:

Option A: Based on the net electricity generation and a CO₂ emission factor of each power unit;
or

Option B: Based on the total net electricity generation of all power plants serving the system and the fuel types and total fuel consumption of the project electricity system.

PP has chosen option A i.e. data on net electricity generation and CO₂ emission factor for each power unit, the average efficiency of each power unit and the fuel type(s) used in each power unit, to calculate the OM of the different regional grids. It is in line with the CEA published database of Carbon Dioxide Emission from the power sector in India based on detailed authenticated information obtained from all operating power stations in the country. The Combined Margin in the CEA database is calculated ex ante using the guidelines provided by the UNFCCC in the "Tool to calculate the emission factor for an electricity system". We have, therefore, used the Combined Margin data published in the CEA database, for calculating the Baseline Emission Factor.

The simple OM emission factor is calculated based on the net electricity generation of each power unit and an emission factor for each power unit, as follows:

$$EF_{grid,OMsimple,y} = \sum (EG_{m,y} \times EF_{EL,m,y}) / \sum EG_{m,y}$$

Where:

$EF_{grid,OMsimple,y}$	Simple operating margin CO ₂ emission factor in year y (tCO ₂ /MWh)
$EG_{m,y}$	Net quantity of electricity generated and delivered to the grid by power unit m in year y (MWh)
$EF_{EL,m,y}$	CO ₂ emission factor of power unit m in year y (tCO ₂ /MWh)
m	All power units serving the grid in year y except low-cost / must-run power units
y	The relevant year as per the data vintage chosen in step 3

The emission factor of each power unit m has been determined as follows:

$$EF_{EL,m,y} = (\sum FC_{i,m,y} \times NCV_{i,y} \times EF_{CO2,i,y}) / EG_{m,y}$$

Where:

$EF_{EL,m,y}$	CO ₂ emission factor of power unit m in year y (tCO ₂ /MWh)
$FC_{i,m,y}$	Amount of fossil fuel type i consumed by power unit m in year y (Mass or volume unit)
$NCV_{i,y}$	Net calorific value (energy content) of fossil fuel type i in year y (GJ / mass or volume unit)
$EF_{CO2,i,y}$	CO ₂ emission factor of fossil fuel type i in year y (tCO ₂ /GJ)
$EG_{m,y}$	Net quantity of electricity generated and delivered to the grid by power unit m in year y (MWh)

So, as per “Tool to calculate the emission factor for an electricity system” version 02.2.1, the OM emission factor can be calculated using ex ante generation-weighted average of the most recent 3 years for which data is available or using ex post generation data in the year in which the project generation occurs. The OM emission factor is calculated using ex ante generation weighted average of the most recent 3 years (2007-08, 2008-09 and 2009-10) and hence does not require yearly monitoring of the OM emission factor. The Central Electricity Authority, Ministry of Power, Government of India has published a database of Carbon Dioxide Emission from the power sector in India based on detailed authenticated information obtained from all operating power stations in the country. This database i.e. The CO₂ Baseline Database provides information about the Combined Margin Emission Factors of all the regional electricity grids in India.

Step 5: Calculate the build margin emission factor

The build margin emission factor has been calculated ex-ante based on the most recent information available on units already built for sample group m at the time of VCS-PD submission to the DOE for validation. This option does not require monitoring the emission factor during the crediting period. The build margin emissions factor is the generation-weighted average emission factor of all power units m during the most recent year y for which power generation data is available, calculated as follows:

$$EF_{grid,BM,y} = (\sum EG_{m,y} \times EF_{EL,m,y}) / \sum EG_{m,y}$$

Where:

$EF_{grid,BM,y}$	Build margin CO ₂ emission factor in year y (tCO ₂ /MWh)
$EG_{m,y}$	Net quantity of electricity generated and delivered to the grid by power unit m in year y (MWh)
$EF_{EL,m,y}$	CO ₂ emission factor of power unit m in year y (tCO ₂ /MWh)
m	Power units included in the build margin
y	Most recent historical year for which power generation data is available

The CO₂ emission factor of each power unit m ($EF_{EL,m,y}$) is determined as per the procedures given in step 4 (a) for the simple OM, using option A1 for y most recent historical year for which power generation data is available, and using form the power units included in the build margin.

Step 6: Calculate the combined margin (CM) emissions factor

The calculation of the combined margin (CM) emission factor ($EF_{grid,CM,y}$) is based on one of the following methods:

- (a) Weighted average CM; or
- (b) Simplified CM.

Since project activity is located in India, which is not a Least Developed Country (LDC) or a country with less than 10 registered projects at the starting date of validation; that's why the weighted average CM method (option a) is considered as a preferred option.

The combined margin emissions factor is calculated as follows:

$$EF_{grid,CM,y} = w_{OM,y} * EF_{grid,OM,y} + w_{BM} * EF_{grid,BM,y}$$

Where:

$EF_{grid,BM,y}$	Build margin CO ₂ emission factor in year y (tCO ₂ /MWh)
$EF_{grid,OM,y}$	Operating margin CO ₂ emission factor in year y (tCO ₂ /MWh)
w_{OM}	Weighting of operating margin emissions factor (%)
w_{BM}	Weighting of build margin emissions factor (%)

For wind and solar power project, as per "Tool to calculate the emission factor for an electricity system", version 02.2.1 the default weights are as follows:

$$w_{OM} = 0.75 \text{ and } w_{BM} = 0.25$$

The Central Electricity Authority (CEA) under the Ministry of Power, Government of India, has estimated the Combined Margin emission factor for the Southern grid for which the details are available on the following website.

["http://www.cea.nic.in/reports/planning/cdm_co2/cdm_co2.htm"](http://www.cea.nic.in/reports/planning/cdm_co2/cdm_co2.htm)

The procedures and formulae used for estimation of the baseline factor and the assumptions made; have also been detailed in there.

Baseline Grid Emission Factor Calculation:

To evaluate the emission factors for Southern Grid the equations mentioned in section B.6.1 is as follows:

$$EF_{grid,CM,y} = w_{OM} * EF_{grid,OM,y} + w_{BM} * EF_{grid,BM,y}$$

$$EF_{grid,CM,y} = 0.75 * EF_{grid,OM,y} + 0.25 * EF_{grid,BM,y}$$

The $EF_{OM,y}$ is calculated as average of latest three years values of OM emission factors for the Southern region Grid as follows¹⁰:

Operating margin for Southern Grid

$$EF_{grid,OM,(2007-08)} = 0.99 \text{ tCO}_2 / \text{MWh}$$

$$EF_{grid,OM,(2008-09)} = 0.97 \text{ tCO}_2 / \text{MWh}$$

$$EF_{grid,OM,(2009-10)} = 0.94 \text{ tCO}_2 / \text{MWh}$$

$$EF_{grid,OM,y} = 0.96729 \text{ tCO}_2 / \text{MWh}$$

http://www.cea.nic.in/reports/planning/cdm_co2/cdm_co2.htm

The value of $EF_{grid,BM,y}$ has been taken from CEA data (Version 06) as latest value (2009-10) of build margin for Southern Grid as follows:

Build margin for Southern Grid

$$EF_{grid,BM,y} = EF_{grid,BM,(2009-10)} = 0.76 \text{ tCO}_2/\text{MWh}$$

Combined margin for Southern grid

$$EF_{grid,CM,y} = 0.75 * 0.96729 + 0.25 * 0.76 = 0.89755 \text{ tCO}_2/\text{MWh}$$

So, the Grid emission factor, $EF_{grid,CM,y} = 0.91547 \text{ tCO}_2/\text{MWh}$

Now, Base Line Emissions: (BE_y)

Operating Margin of southern Grid of India - $EF_{OM,y} = 0.96729 \text{ tCO}_2 \text{ e / MWh}$

Build Margin of southern Grid of India - $EF_{BM,y} = 0.76 \text{ tCO}_2 \text{ e / MWh}$

Emission Factor of southern Grid of India - $EF_{grid,CM,y} = 0.91547 \text{ tCO}_2\text{e/MWh}$

$$BE_y = EG_{PJ,y} \times EF_{grid,CM,y}$$

$EG_{PJ,y} = EG_{facility,y}$ = Electricity supplied by the project activity to the grid (MWh)

3.2 Project Emissions

The project involves the generation from the installation of wind turbines and hence it is not expected to result in any anthropogenic emission which is in line with the applied methodology ACM 0002, version 12.2.0. Hence, there is no project emission from the project activity.

$$PE_y = 0$$

3.3 Leakage

There is no leakage involved in the project activity.

$$L_y = 0$$

3.4 Summary of GHG Emission Reductions and Removals

As per the applied approved methodology ACM0002 (Version 12.3) Emission Reductions are calculated as:

$$ER_y = BE_y - PE_y - L_y$$

Where:

ER_y	-	Emission reductions in year y (t CO ₂ e/yr)
BE_y	-	Baseline emissions in year y (t CO ₂ e/yr)
PE_y	-	Project emissions in year y (t CO ₂ e/yr)
LE_y	-	Leakage Emissions in year y (t CO ₂ e/yr)

Hence, for a given year, the emission reductions contributed by the project activity (ER_y) is calculated as follows:

$$ER_y = BE_y - PE_y - L_y$$

$$ER_y = BE_y$$

Years	Estimated baseline emissions or removals (tCO ₂ e)	Estimated project emissions or removals (tCO ₂ e)	Estimated leakage emissions (tCO ₂ e)	Estimated net GHG emission reductions or removals (tCO ₂ e)
2010	1,39,923	0	0	1,39,923
2011	3,88,534	0	0	3,88,534
2012	448,827	0	0	448,827
2013	448,827	0	0	448,827
2014	448,827	0	0	448,827
2015	448,827	0	0	448,827
2016	448,827	0	0	448,827
2017	448,827	0	0	448,827
2018	448,827	0	0	448,827
2019	448,827	0	0	448,827
2020	54,857	0	0	54,857
Total	41,73,925	0	0	41,73,925

Note: 2010- Year starts from 16th February to 31st December 2010

2011- Year starts from 1st January to 31st December 2011

2012-2019- 1st January to 31st December

2020- 1st January 2020 to 15th February 2020.

Total crediting period is thus 10 years only.

4 MONITORING

4.1 Data and Parameters Available at Validation

Data Unit / Parameter:	EF_{grid,CM,y}
Data unit:	tCO ₂ /MWh
Description:	Combined Margin CO ₂ emission factor for Southern regional grid
Source of data:	Estimated figure based on 75% of OM and 25% of BM values calculated using data obtained from CEA database on CO ₂ baseline emission factor for Indian Power Sector (Version 6.0)

Value applied:	0.91547
Justification of choice of data or description of measurement methods and procedures applied:	Calculated with an option of ex ante and based on "75% of OM and 25% of BM values approach".
Any comment:	The data will be archived for two years after the crediting period or of the last issuance of VCUs for this project activity.

Data Unit / Parameter:	EF_{grid,OM,y}
Data unit:	tCO ₂ /MWh
Description:	The Operating Margin emission factor of southern grid
Source of data:	This is calculated as the average of the most recent three years (2007-08, 2008-09 and 2009-10) data on Operating Margin provided by Central Electricity Authority. The values used are the latest available at the time of PDD submission. (CO ₂ Baseline database for the Indian power sector) (Version 6.0)
Value applied:	0.96729
Justification of choice of data or description of measurement methods and procedures applied:	The value is taken from the database developed by Central Electricity Authority (CO ₂ Baseline database for the Indian power sector). The database is Government of India's official publication based on the 'Tool to calculate the emission factor for an electricity system', version 02.2.1.
Any comment:	The data will be archived for two years after the crediting period or of the last issuance of VCUs for this project activity.

Data Unit / Parameter:	EF_{grid,BM,y}
Data unit:	tCO ₂ /MWh
Description:	The Build Margin emission factor of Southern grid
Source of data:	This is the value of Build margin emission factor of recent year (2009-10). The values used are the latest available at the time of PDD submission for validation. (CO ₂ Baseline database for the Indian power sector) (Version 6.0)
Value applied:	0.76
Justification of choice of data or description of measurement methods and procedures applied:	The value is taken from the database developed by Central Electricity Authority (CO ₂ Baseline database for the Indian power sector). The database is Government of India's official publication based on the 'Tool to calculate the emission factor for an electricity system', version

	02.2.1.
Any comment:	The data will be archived for two years after the crediting period or of the last issuance of VCUs for this project activity.

4.2 Data and Parameters Monitored

Data Unit / Parameter:	EG_{PJ,y}
Data unit:	MWh/ annum
Description:	Total net electricity supplied by the project activity to the grid in year y ($EG_{PJ,y} = EG_{facility,y}$)
Source of data:	Generation Statement/Meter Card of the each WTGs issued by TNEB/TANGEDCO
Description of measurement methods and procedures to be applied:	The energy exported and imported will be measured using energy meters (shall not be inferior to that of 0.5s accuracy Class) at grid interconnection point (i.e. EB yard) which is under the control of TNEB. The readings are taken every month by TNEB officials in the presence of Site engineer.
Frequency of monitoring/recording:	Once in a Month
Value applied:	
Monitoring equipment:	In accordance with electricity standards electronic tri-vector meters, having accuracy class not inferior to that of 0.5s, capable of recording export and import has been installed. The meters are maintained and owned by TNEB and the meter details like make, serial numbers etc., are provided in Appendix I of the PD.
QA/QC procedures to be applied:	The Periodical calibration of all the meters will be undertaken at required intervals as per TNERC/CEA norms (at least once in five years). At the time of commissioning of the WTG, calibrated and duly tested meter will be installed for measuring the electricity and first calibration will be done after five years from the date of commissioning of the WTG. The same procedure will be followed for each WTG
Calculation method:	Total net electricity supplied by the project activity to the grid in year y [$EG_{PJ,y} = EG_{facility,y} = \text{Total Export} - \text{Total Import}$]
Any comment:	The data will be archived for two years after the crediting period or of the last issuance of VCUs for this project activity.

4.3 Description of the Monitoring Plan

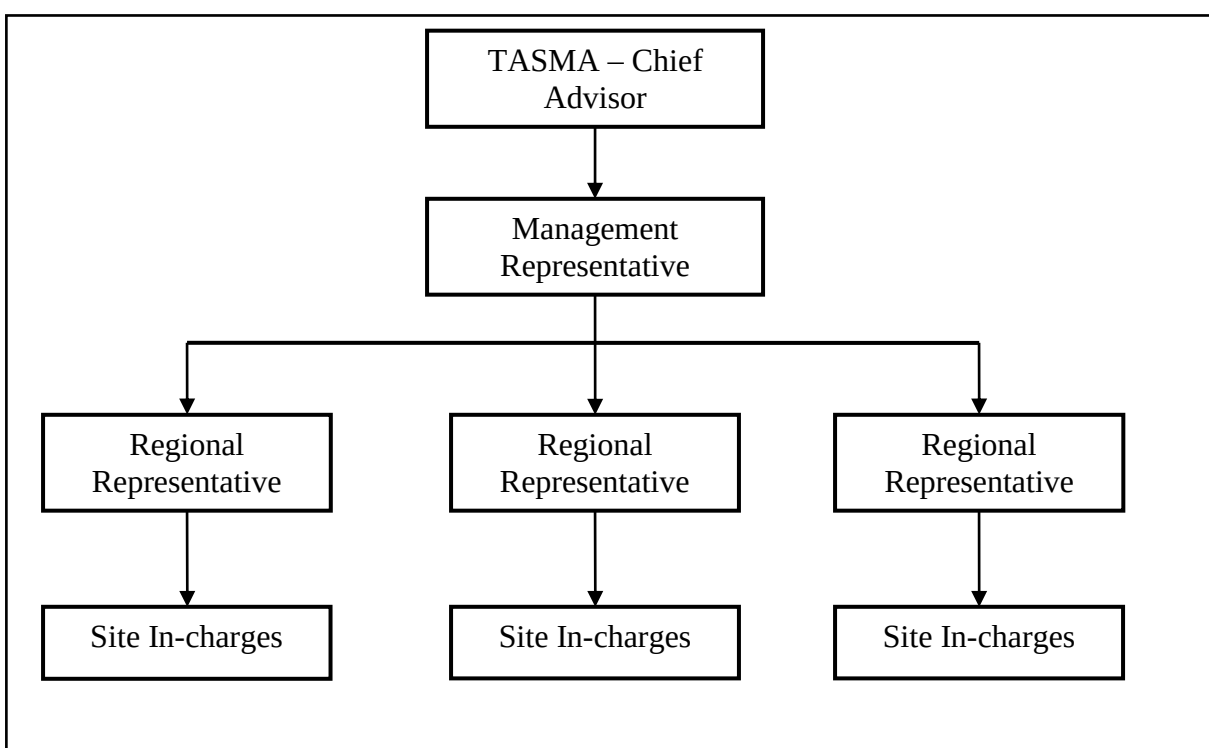
Monitoring Plan:

The monitoring methodology specified in the methodology requires that the project-monitoring plan to consist of metering the electricity generated by the renewable technology. In order to

monitor the emission reductions due to the project activity, the total energy exported needs to be measured. For measuring the net electricity supplied to grid by the project activity, the total electricity exported and the total electricity imported needs to be measured. The net energy supplied to grid by the project activity is nothing but the difference between the total energy exported and the total energy that is being imported (i.e. the startup power). The net energy supplied to grid by the project activity is multiplied by the emission factor of the respective regional grid, would form the baseline for the project activity. Since the baseline emission factor is based on an ex-ante determination, monitoring of this parameter is not required. The sole parameter for monitoring is the net electricity exported to the grid.

Management structure and its Responsibilities:

The monitoring activity with respect to VCS will be centrally executed by TASMA. The Management Structure for monitoring emission reductions from the project activity are:



The responsibilities of Management structure are

1. TASMA:
 - a. Reviewing the monthly and annual statistics.
 - b. Evaluating the GHG performance of the project activity.
 - c. Identify opportunities for further improvement.
2. Regional representative:
 - a. Reviewing the GHG performance related parameters as recorded by the Site In-Charge regularly.
 - b. Implementation of appropriate corrective measures in case any discrepancies are identified in the reported parameters.
 - c. Ensuring calibration of the monitoring equipments as per the defined calibration schedule.

3. Site In-charge:
 - a. The Site In-charge (O&M Service provider/Company personnel) besides operation and maintenance of the wind turbine generators will record monthly energy meter reading jointly with TNEB officials and submits the generation Statement to the TASMA as and when called for.

The **Metering** for WTGs of the project activity will be carried out as under:

The monthly meter reading is being taken jointly by the Parties (TNEB/TANGEDCO and the Site In-charge) on a fixed day of the month. At the conclusion of meter reading on each occasion, an appointed representative of the TNEB/TANGEDCO shall sign the meter card provided for this purpose and the entries made will be verified by the site in-charges. The TNEB/TANGEDCO meter reading will be used for recording electricity generation and the same is sealed by TNEB/TANGEDCO and shall not be interfered other than TNEB/TANGEDCO personnel. Emission reduction calculation is based on the Generation Statement issued by TNEB/TANGEDCO.

The Energy exported shall be metered by the TNEB/Electricity utility at the high voltage side of the step-up Transformer installed at the project site.

Metering Equipment:

In accordance with Industry standards or PPA electronic trivector meters, having accuracy class not inferior to that of 0.5s capable of recording export and import reading has been installed. The main meters are maintained and owned by TNEB/TANGEDCO whereas the panel meters are maintained and owned by the Sub-bundle PPs.

Joint Meter Reading:

The monthly meter reading (main meter) is being taken jointly by the Parties (TNEB and the Site In-charge) on a fixed day of the month. At the conclusion of meter reading on each occasion, an appointed representative of the TNEB shall sign the meter card provided for this purpose and the said entries will be verified by the site in-charge. The main meter reading will be used for recording electricity generation and the panel meter attached with the WTG is used only for cross checking the main meter reading. Emission reduction calculation is based on the main meter reading only.

Inspection of Energy Meters:

The main energy meter (export and import) shall not be inferior to that of 0.5s accuracy class. This meter shall be jointly inspected and however the same main meter is sealed by the TNEB and shall not be interfered other than TNEB.

Meter Testing/Calibration:

The meter is sealed and controlled by TNEB/TANGEDCO/Electricity utility and there is no control of PP on this meter. The calibration is also carried out by TNEB/TANGEDCO as per TNERC/CEA Norms. In India, CEA is the top most authority to set periodicity of calibration. Hence, as per TNERC/CEA norms a maximum of five years could be considered as the periodicity of calibration. The main meter shall be jointly inspected and however the same is sealed by the TNEB/TANGEDCO and shall not be interfered other than TNEB/TANGEDCO.

Procedure handling for data uncertainty:

Failure of meter:

In case of failure of meter, during the period when the faulty meter is replaced by new calibrated meter, the readings from the concerned WTG would not be available and therefore the emission reductions would not be accounted for. In this context it is to be noted that there would be separate joint meter readings (JMRs) for the faulty meter and new meter (for the faulty meter up to the time of replacement and for the new meter from the time of replacing the old faulty meter). As the emission reductions would be estimated based on JMRs, the readings during the period of replacement of old faulty meter by new meter would not be accounted for in the calculations.

Error identified during calibration:

During the calibration, if the main meter is found to be beyond the permissible limits of error, the meter shall be immediately calibrated and replaced, if necessary. The error that is identified in the calibration would be applied to entire range of data from the date of last calibration till the monthly readings on which the new calibrated meter is fixed.

Documents and Records:

All documents will be identified with the internal codes of TASMA.

The Key records that will be maintained at TASMA are:

- Project Activity Matrix giving all Company ID details
- Monthly Generation Details
- VCUs Computed on a yearly basis
- Records of Management Review

Periodic Review Meetings

Management Review meetings will be conducted by TASMA once in three months with all Regional Representatives and Management Representative. All project related matters will be discussed with a structured agenda, and action plans will be identified. The minutes of the meetings will be recorded.

Apportioning procedure in case the registration date (start date of the monitoring period) does not match with the billing cycle dates:

In the circumstances when the start date of the monitoring period does not match with the start date of the billing cycle of WTGs, the net electricity generation data would have to be apportioned conservatively to calculate the emission reductions from the start date of the monitoring period (i.e. from the date of registration). For carrying out the apportioning procedures, the panel meter data would be utilised for the estimation of net electricity generation. The electricity generation as recorded by the panel meter on a daily basis in the log book/power generation reports maintained by O&M contractors and the same would be referred for determination of the apportioning ratio. The following steps shall be applied to carry out the apportioning of Power generation.

- (a) The apportioning ratio shall be calculated as the ratio of Net Generation at the panel meter i.e. the LCS (Local Control System installed at the WTG) for the period covered under JMR report
- (b) Apportioned net electricity supplied to grid for the apportioned period would be calculated as apportioning ratio multiplied by the net electricity supplied to grid as per JMR report

QA AND QC Procedures

In case of failure or error in the main meter, the TNEB (State Government) officials will be informed about that and the defective meter would be immediately replaced by a newly calibrated meter. The generation of wind power during the meter replacement would not be accounted for the calculation of emission reductions unless supported by a JMR issued by the TNEB.

Emergency preparedness:

Since the Project activity is a wind based electricity generation, the project activity will not result in any activity that leads to substantial emissions and hence emergency preparedness in data monitoring is not required.

Data Storage and Archiving

All the monitored data under the monitoring plan will be kept for 2 years after the end of crediting period or till the last issuance of VCUs for this project activity whichever occurs later.

5 ENVIRONMENTAL IMPACT

As per the Ministry of Environment and Forests (Government of India) notification the project activity does not fall under the purview of the Environmental impact Assessment under Notification dated 14th September 2006, thus the project activity is exempted from the environmental clearances¹¹.

There are no negative environmental effects envisaged from the project. Wind turbines are considered as zero GHG emission projects, so there will be no pollution caused by the project. Hence the proposed project doesn't fall under the list of activities requiring EIA as it will not involve any negative environmental impacts. The PP has obtained the NOC issued by TNEB/TANGEDCO from all the 396 WTGs.

6 STAKEHOLDER COMMENTS

An on-site local stakeholder questionnaire survey has been conducted by TASMA during November 2011 for collecting comments on the Project activity. TASMA has their regional representative located in various districts of Tamilnadu where WTGs are located. The stakeholders were Farmers, Fishermen, teaching institutions, local body representatives, media, government officials, NGO/Trade Unions and professionals. To take the feedback transparently, TASMA has instructed their regional representative to circulate the questionnaire randomly to the local stakeholders in nearby villages/towns of installed WTG site. The regional representative has also provided the significant number of Questionnaires to the local village Panchayat office and requested them to notify local residents to provide their feedback on the proposed project activity. The regional representative has collected the Questionnaire from the stakeholders who were willing to provide their feedback. All documentation was in English and further translated in the regional language wherever necessary by the Regional Representatives of TASMA.

A total of 108 no of Questionnaires were received from public interviewees, project appraisal made and the duly filled in questionnaire with signature and address were obtained. A brief introduction of the VCS project activity was given along with the questionnaire. The basic Questions covered in the questionnaire are given below:

Sl No	Questions
1.	What do you think about the environment in your locality after this project?
2.	Is your environment affected by the wind mill?

¹¹ <http://envfor.nic.in/legis/eia/so1533.pdf>

3.	Is your TV Reception affected by the Windmill?
4.	Does the project affect the livelihood?
5.	Does the project improve livelihood?
6.	Has employment increased due to the project?
7.	Is there any Noise problem due to the wind mill?
8.	Is there any water problem due to the windmill?
9.	Is there any Vibration problem due to the windmill?
10.	Is there any problem with respect to construction?
11.	Does the wind mill affect the migration of birds?
12.	Does the wind mill affect the grazing by cattle?
13.	Are there any benefits from the wind Mill?
14.	Is the power cut reduces after implementation of the project?
15.	Is there improvement in infrastructure capacity (roads, hospitals, etc) due to installation of windmill project in your area?
16.	Comments and suggestions
17.	Any other points for consideration

Summary of the comments received:

The stakeholders provided their feedback on the initiative taken up by the PP. All the stakeholders expressed that they were glad to know the proposed project would contribute to mitigate global warming and improving local economy driven by the installations of WTGs by TASMA members. The feedback in the questionnaire also reflects that the stakeholders agreed that the project activity is helpful in the socio-economic upliftment of the people in the neighboring area and also supported the project as they believe the project is environmentally sound and it would lead to an overall development of the area by generating employment and improving infrastructure. The local village people unanimously agreed that due to this project activity the employment opportunities for the local people have increased to some extent. No negative comments were received from the local villagers about the project activity.

The public opinions collected through questionnaire investigation were summarized in table below:

Sl. No	Question	Responses					
		Options	No of responses	Options	No of responses	Options	No of responses
1.	What do you think about the environment in your locality after this project?	Very Good	79	Average	29	Not Good	0
2.	Is your environment affected by the wind mill?	Not at all	86	Mildly	21	Significantly	1
3.	Is your TV Reception affected by the Windmill?	Not at all	96	Mildly	10	Significantly	2
4.	Does the project affect the livelihood?	Not at all	84	Mildly	23	Significantly	1
5.	Does the project improve livelihood?	Good Improvement	91	Some	15	No	2
6.	Has employment	Good	69	Some	35	No	4

	increased due to the project?	Improvement					
7.	Is there any Noise problem due to the wind mill?	Not at all	68	Mildly	38	Significantly	2
8.	Is there any water problem due to the windmill?	Not at all	99	Mildly	8	Significantly	1
9.	Is there any Vibration problem due to the windmill?	Not at all	84	Mildly	22	Significantly	2
10.	Is there any problem with respect to construction?	Not at all	69	Mildly	37	Significantly	2
11.	Does the wind mill affect the migration of birds?	Not at all	90	Mildly	18	Significantly	0
12.	Does the wind mill affect the grazing by cattle?	Not at all	80	Mildly	23	Significantly	5
13.	Are there any benefits from the wind Mill?	Good Benefits	74	Average Benefits	31	No Benefit	3
14.	Is the power cut reduces after implementation of project?	Not at all	37	Mildly	51	Significantly	20
15.	Is there improvement in infrastructure capacity (roads, hospitals, etc) due to installation of windmill project in your area?	Not at all	65	Mildly	35	Significantly	8
16.	Significant Comments and suggestions:	Employment opportunity should be increased by this project. Improve in Infrastructure like roads, hospitals, etc					
17.	Any other Points for Consideration?						

The questionnaire investigation results summarized in Table above confirmed that local stakeholders have sufficient support for the proposed VCS project by TASMA members in Tamilnadu.

Report on how due account was taken of any comments received:

No negative comments have been received on the project. Moreover, the local community possesses strong positive comments on the effects that the proposed project will make on the local economy and infrastructure.

APPENDIX 1: Details of Sub-Project Participants

SI No	Comp Code	Name of the Sub-bundle Owners	No. of WTGs	Capacity of each WTG (In MW)	Total Capacity (In MW)	HTSC . No	Comm. Date (mm/dd/yyyy)	WTG Make	Village	District	Lat (N)	Long (E)
1	C0002	A.P.A. Textiles India Pvt. Ltd.,	1	0.600	0.600	750	3/27/2010	RRB ENERGY LTD.,	Bogampatti	Coimbatore	10.90	77.09
2	C0003	AA Fashion Wear Pvt. Ltd.,	1	0.600	0.600	162	3/31/2010	RRB ENERGY LTD.,	Varapatti	Coimbatore	10.90	77.18
3	C0005	Ambika Cotton Mills Ltd.,	8	1.500	12.000	9	8/17/2010	REGEN POWERTECH PVT. LTD.,	Vallalnathi	Theni	9.93	77.52
4						10	8/17/2010	REGEN POWERTECH PVT. LTD.,	Vallalnathi	Theni	9.94	77.53
5						11	8/17/2010	REGEN POWERTECH PVT. LTD.,	Thekkampatty	Theni	9.94	77.53
6						12	8/17/2010	REGEN POWERTECH PVT. LTD.,	Thekkampatty	Theni	9.94	77.53
7						13	8/17/2010	REGEN POWERTECH PVT. LTD.,	Vallalnathi	Theni	9.93	77.54
8						14	8/18/2010	REGEN POWERTECH PVT. LTD.,	Marikundu	Theni	9.96	77.55
9						15	8/26/2010	REGEN POWERTECH PVT. LTD.,	Vallalnathi	Theni	9.94	77.53
10						16	8/26/2010	REGEN POWERTECH PVT. LTD.,	Koduvilarpatti	Theni	9.96	77.50

11	C0006	Angalakshmi Spinning Mill	2	0.600	1.200	3144	3/29/2010	RRB ENERGY LTD.,	Keelaveera nam	Tirunelveli	8.92	77.51
12						3145	3/29/2010	RRB ENERGY LTD.,	Keelaveera nam	Tirunelveli	8.93	77.51
13	C0007	Annamalaiyar Spinners	1	0.600	0.600	746	3/27/2010	RRB ENERGY LTD.,	Bogampatti	Coimbatore	10.89	77.10
14	C0012A	Arunachala Gounder Textile Mills Pvt. Ltd.,	1	0.850	0.850	14	8/19/2010	GAMESA WIND TURBINES PVT. LTD.,	Govindanagaram	Theni	9.93	77.49
15	C0012B	Arunachala Gounder Textile Mills Pvt. Ltd.,	2	0.600	1.200	1843	3/31/2010	RRB ENERGY LTD.,	Moolarapatti	Tirupur	10.75	77.40
16						1844	3/31/2010	RRB ENERGY LTD.,	Moolarapatti	Tirupur	10.76	77.40
17	C0013	Arun's Engineering Works	1	0.250	0.250	758	3/30/2010	PIONEER WINCON PVT. LTD.,	Vadugapalayam	Tirupur	10.95	77.27
18	C0014	B.M.M Paper Board (P) Ltd.,	1	0.850	0.850	82	5/18/2010	GAMESA WIND TURBINES PVT. LTD.,	Vallalnathi	Theni	9.90	77.51
19	C0015	Bala Vimodhan Power Process Pvt. Ltd.,	1	0.225	0.225	1803	3/31/2010	SOUTHERN WIND FARMS LTD.,	Maruthur	Tirupur	10.48	77.24
20	C0016	Balu Wind Power Pvt. Ltd.,	7	0.250	1.750	1871	6/18/2010	CHIRANJEEV I WIND ENERGY LTD.,	Munduvella mpatti	Tirupur	10.46	77.22
21						1872	6/18/2010	CHIRANJEEV I WIND ENERGY LTD.,	Munduvella mpatti	Tirupur	10.46	77.22
22						1873	6/18/2010	CHIRANJEEV I WIND ENERGY LTD.,	Munduvella mpatti	Tirupur	10.46	77.22
23						1874	6/18/2010	CHIRANJEEV I WIND ENERGY LTD.,	Munduvella mpatti	Tirupur	10.45	77.22

24						1838	3/31/2010	CHIRANJEEV I WIND ENERGY LTD.,	Munduvella mpatti	Tirupur	10.46	77.23
25						1839	3/31/2010	CHIRANJEEV I WIND ENERGY LTD.,	Munduvella mpatti	Tirupur	10.46	77.23
26						1870	6/18/2010	CHIRANJEEV I WIND ENERGY LTD.,	Munduvella mpatti	Tirupur	10.46	77.22
27	C0017	BRN Jewellery	1	0.250	0.250	1796	3/31/2010	PIONEER WINCON PVT. LTD.,	Moolarapatti	Tirupur	10.75	77.39
28	C0018	BSM Wind Energy Pvt. Ltd.,	8	0.250	2.000	1868	6/18/2010	CHIRANJEEV I WIND ENERGY LTD.,	Munduvella mpatti	Tirupur	10.45	77.22
29						1875	6/18/2010	CHIRANJEEV I WIND ENERGY LTD.,	Munduvella mpatti	Tirupur	10.45	77.22
30						1869	6/18/2010	CHIRANJEEV I WIND ENERGY LTD.,	Munduvella mpatti	Tirupur	10.45	77.22
31						1956	9/30/2010	CHIRANJEEV I WIND ENERGY LTD.,	Munduvella mpatti	Tirupur	10.44	77.20
32						1955	9/30/2010	CHIRANJEEV I WIND ENERGY LTD.,	Munduvella mpatti	Tirupur	10.44	77.21
33						1958	9/30/2010	CHIRANJEEV I WIND ENERGY LTD.,	Munduvella mpatti	Tirupur	10.46	77.22
34						1888	9/7/2010	CHIRANJEEV I WIND ENERGY LTD.,	Munduvella mpatti	Tirupur	10.44	77.21

35						1894	9/21/2010	CHIRANJEEV I WIND ENERGY LTD.,	Munduvella mpatti	Tirupur	10.44	77.22
36	C0021	C.M.B. Spinning Mills	1	0.600	0.600	781	3/31/2010	RRB ENERGY LTD.,	Varapatti	Coimbatore	10.93	77.19
37	C0022	Chenduran Cotspin (India) Pvt. Ltd.,	2	0.850	1.700	6	8/17/2010	GAMESA WIND TURBINES PVT. LTD.,	Vallalnathi	Theni	9.93	77.51
38						8	8/17/2010	GAMESA WIND TURBINES PVT. LTD.,	Thadicheri	Theni	9.93	77.49
39	C0024	Chiranjeevi Wind Energy Ltd.,	3	0.250	0.750	159	3/31/2010	CHIRANJEEV I WIND ENERGY LTD.,	Varapatti	Coimbatore	10.55	77.12
40						785	3/31/2010	CHIRANJEEV I WIND ENERGY LTD.,	Mallegound ampalayam	Tirupur	10.53	77.10
41						3206	4/1/2010	CHIRANJEEV I WIND ENERGY LTD.,	Poigai	Tirunelveli	9.03	77.40
42	C0025	Chithiradevi	1	0.225	0.225	1757	3/27/2010	SOUTHERN WIND FARMS LTD.,	Munduvella mpatti	Tirupur	10.45	77.23
43	C0027	Concorde Textiles	1	0.600	0.600	3050	3/19/2010	RRB ENERGY LTD.,	Poigai	Tirunelveli	9.05	77.41
44	C0028	D.A.R. Paradise Retail Division	1	0.225	0.225	1801	3/31/2010	SOUTHERN WIND FARMS LTD.,	Maruthur	Tirupur	10.75	77.42
45	C0031	Ever Mellow Energy (India) Pvt. Ltd.,	1	0.850	0.850	28	9/17/2010	GAMESA WIND TURBINES PVT. LTD.,	Vallalnathi	Theni	9.91	77.52
46	C0032	Eveready Spinning Mills Pvt. Ltd.,	6	0.850	5.100	1	9/30/2010	GAMESA WIND TURBINES	Govindanagaram	Theni	10.97	77.74

								PVT. LTD.,				
47						2	9/30/2010	GAMESA WIND TURBINES PVT. LTD.,	Govindanagaram	Theni	10.98	77.74
48						849	9/30/2010	GAMESA WIND TURBINES PVT. LTD.,	Elavanthi	Tirupur	10.92	77.29
49						850	9/30/2010	GAMESA WIND TURBINES PVT. LTD.,	V. Vadamalaipalayam	Tirupur	10.88	77.32
50						16	12/31/2010	GAMESA WIND TURBINES PVT. LTD.,	Jangalpatti	Theni	9.92	77.48
51						31	1/29/2011	GAMESA WIND TURBINES PVT. LTD.,	Jangalpatti	Theni	9.89	77.47
52						1732	3/17/2010	SOUTHERN WIND FARMS LTD.,	Naranapuram	Tirupur	10.96	77.26
53	C0034	Fab Colours	3	0.225	0.675	1733	3/17/2010	SOUTHERN WIND FARMS LTD.,	Munduvella mpatti	Tirupur	10.96	77.26
54						1734	3/18/2010	SOUTHERN WIND FARMS LTD.,	Munduvella mpatti	Tirupur	10.96	77.25
55						1772	3/28/2010	SOUTHERN WIND FARMS LTD.,	Maruthur	Tirupur	10.96	77.26
56	C0035	Gene Apparels	2	0.225	0.450	1773	3/28/2010	SOUTHERN WIND FARMS LTD.,	Naranapuram	Tirupur	10.97	77.26

57	C0036	Gomuki Spinning Mills Pvt. Ltd.,	10	0.250	2.500	1784	3/30/2010	PIONEER WINCON PVT. LTD.,	Eragampatti	Tirupur	10.81	77.41
58						1785	3/30/2010	PIONEER WINCON PVT. LTD.,	Eragampatti	Tirupur	10.81	77.41
59						1786	3/30/2010	PIONEER WINCON PVT. LTD.,	Velayutham palayam	Tirupur	10.78	77.41
60						1787	3/30/2010	PIONEER WINCON PVT. LTD.,	Velayutham palayam	Tirupur	10.79	77.41
61						1788	3/31/2010	PIONEER WINCON PVT. LTD.,	Velayutham palayam	Tirupur	10.79	77.41
62						1789	3/31/2010	PIONEER WINCON PVT. LTD.,	Velayutham palayam	Tirupur	10.79	77.41
63						1790	3/31/2010	PIONEER WINCON PVT. LTD.,	Eragampatti	Tirupur	10.81	77.41
64						1791	3/31/2010	PIONEER WINCON PVT. LTD.,	Eragampatti	Tirupur	10.79	77.41
65						1792	3/31/2010	PIONEER WINCON PVT. LTD.,	Velayutham palayam	Tirupur	10.80	77.41
66						1830	3/31/2010	PIONEER WINCON PVT. LTD.,	Eragampatti	Tirupur	10.80	77.41
67	C0038	Shiva Bharathi Syntex India Pvt. Ltd.,	1	0.250	0.250	1797	3/31/2010	PIONEER WINCON PVT. LTD.,	Moolarapatti	Tirupur	10.76	77.39
68	C0039	Hindustan Hardwares	1	0.800	0.800	212	3/19/2010	ENERCON INDIA LTD.,	Kozhumank ondan	Dindigul	10.56	77.45
69	C0040	Hindustan Spinners	1	0.800	0.800	217	3/25/2010	ENERCON INDIA LTD.,	Kozhumank ondan	Dindigul	10.55	77.45

70	C0041	Hindustan Textiles 'B' Unit	1	0.800	0.800	213	3/25/2010	ENERCON INDIA LTD.,	Melkaraipatt i	Dindigul	10.58	77.47
71	C0042	Hotel Chandra Towers Ltd.,	2	0.250	0.500	3140	3/28/2010	PIONEER WINCON PVT. LTD.,	Kambhaneri Pudhukudi	Tirunelveli	9.05	77.38
72						3091	3/24/2010	PIONEER WINCON PVT. LTD.,	Urmelazhagian	Tirunelveli	9.06	77.28
73	C0043	J.P.P. Mills Pvt. Ltd.,	2	0.850	1.700	112	7/2/2010	GAMESA WIND TURBINES PVT. LTD.,	Govindanagaram	Theni	9.90	77.50
74						138	8/20/2010	GAMESA WIND TURBINES PVT. LTD.,	Govindanagaram	Theni	9.90	77.50
75	C0044	Jayanthi Textile Products Unit II	1	1.250	1.250	160	3/31/2010	SUZLON ENERGY LTD.,	Poorandam palayam	Coimbatore	10.85	77.16
76	C0046	K.A.S. Industries India Ltd.,	1	0.600	0.600	3063	3/20/2010	RRB ENERGY LTD.,	Vellalankulam	Tirunelveli	9.02	77.47
77	C0047	K.A.S. Industries India Ltd.,	2	0.600	1.200	3069	3/22/2010	RRB ENERGY LTD.,	Vellalankulam	Tirunelveli	9.03	77.46
78						3070	3/22/2010	RRB ENERGY LTD.,	Vellalankulam	Tirunelveli	9.02	77.47
79	C0048	K.S.R. Textile Mills Pvt. Ltd.,	1	0.800	0.800	1864	5/29/2010	ENERCON INDIA LTD.,	Chinnaputhur	Tirupur	10.74	77.46
80	C0050	Karthi Rice Mill	1	0.225	0.225	1763	3/28/2010	SOUTHERN WIND FARMS LTD.,	Athukinathupatti	Tirupur	10.70	77.31
81	C0051	KPL Oil Mills Pvt. Ltd.,	1	0.250	0.250	928	3/31/2010	CHIRANJEEVI WIND ENERGY LTD.,	Varapatti	Coimbatore	10.54	77.12
82	C0053	M.N. Easwaramurthi	2	0.225	0.450	1735	3/18/2010	SOUTHERN WIND FARMS LTD.,	Naranapuram	Tirupur	10.96	77.24
83						1762	3/27/2010	SOUTHERN WIND FARMS	Naranapuram	Tirupur	10.96	77.24

								LTD.,				
84	C0055	Mani Cotton Textiles	1	0.600	0.600	826	7/26/2010	RRB ENERGY LTD.,	V. Kallipalaya m	Tirupur	10.92	77.32
85	C0056	Mani Spinning Mills Pvt. Ltd.,	4	0.850	3.400	35	3/2/2011	GAMESA WIND TURBINES PVT. LTD.,	Thappukundu	Theni	9.93	77.47
86						51	4/2/2011	GAMESA WIND TURBINES PVT. LTD.,	Sankarandampalayam	Tirupur	10.83	77.58
87						52	4/2/2011	GAMESA WIND TURBINES PVT. LTD.,	Sankarandampalayam	Tirupur	10.82	77.57
88						53	4/2/2011	GAMESA WIND TURBINES PVT. LTD.,	Sankarandampalayam	Tirupur	10.82	77.58
89	C0057	Marathal Spinners	1	0.600	0.600	748	3/27/2010	RRB ENERGY LTD.,	Bogampatti	Coimbatore	10.89	77.10
90	C0058	Marudhavel Industries Ltd.,	1	0.250	0.250	153	3/31/2010	CHIRANJEEVI WIND ENERGY LTD.,	Poorandampalayam	Coimbatore	10.53	77.10
91	C0059	Mefco Engineers Pvt. Ltd.,	6	0.250	1.500	1750	3/27/2010	SIVA WINDTURBINE INDIA PVT. LTD.,	Kethalrev	Tirupur	10.78	77.42
92						1751	3/27/2010	SIVA WINDTURBINE INDIA PVT. LTD.,	Kethalrev	Tirupur	10.78	77.42
93						1813	3/31/2010	SIVA WINDTURBINE INDIA PVT. LTD.,	Maruthur	Tirupur	10.78	77.38

94						1814	3/31/2010	SIVA WINDTURBINE INDIA PVT. LTD.,	Maruthur	Tirupur	10.79	77.40
95						1877	7/1/2010	SIVA WINDTURBINE INDIA PVT. LTD.,	Maruthur	Tirupur	10.78	77.38
96						1878	7/9/2010	SIVA WINDTURBINE INDIA PVT. LTD.,	Moolarapatti	Tirupur	10.78	77.40
97	C0061	N Tex Apparel Pvt. Ltd.,	5	0.250	1.250	1793	3/31/2010	PIONEER WINCON PVT. LTD.,	Eragampatti	Tirupur	10.80	77.41
98						1831	3/31/2010	PIONEER WINCON PVT. LTD.,	Velayutham palayam	Tirupur	10.80	77.41
99						1832	3/31/2010	PIONEER WINCON PVT. LTD.,	Velayutham palayam	Tirupur	10.80	77.41
100						1833	3/31/2010	PIONEER WINCON PVT. LTD.,	Velayutham palayam	Tirupur	10.81	77.41
101						1835	3/31/2010	PIONEER WINCON PVT. LTD.,	Eragampatti	Tirupur	10.81	77.41
102	C0066	P.A. Nanjappa Gounder	1	0.250	0.250	1794	3/31/2010	PIONEER WINCON PVT. LTD.,	Maruthur	Tirupur	10.76	77.37
103	C0067	SG Wind Farm Pvt. Ltd.,	9	0.225	2.025	1737	3/18/2010	SOUTHERN WIND FARMS LTD.,	Naranapura m	Tirupur	10.45	77.23
104						1753	3/27/2010	SOUTHERN WIND FARMS LTD.,	Naranapura m	Tirupur	10.45	77.23
105						1753	3/27/2010	SOUTHERN WIND FARMS LTD.,	Naranapura m	Tirupur	10.44	77.23

106						1754	3/27/2010	SOUTHERN WIND FARMS LTD.,	Naranapuram	Tirupur	10.45	77.23
107						1755	3/27/2010	SOUTHERN WIND FARMS LTD.,	Naranapuram	Tirupur	10.45	77.23
108						1756	3/27/2010	SOUTHERN WIND FARMS LTD.,	Naranapuram	Tirupur	10.46	77.23
109						1806	3/31/2010	SOUTHERN WIND FARMS LTD.,	Naranapuram	Tirupur	10.45	77.22
110						1806	3/31/2010	SOUTHERN WIND FARMS LTD.,	Naranapuram	Tirupur	10.45	77.22
111						1807	3/31/2010	SOUTHERN WIND FARMS LTD.,	Munduvella mpatti	Tirupur	10.45	77.22
112	C0068	P.K.P.N. Spinning Mills Pvt. Ltd.,	1	1.650	1.650	65	3/27/2010	VESTAS WIND TECHNOLOGY INDIA PVT. LTD.,	Vallalnathi	Theni	9.92	77.53
113	C0071	Pallipalayam Spinners Pvt. Ltd.,	3	0.600	1.800	1840	3/31/2010	RRB ENERGY LTD.,	Govindhapuram	Tirupur	10.74	77.40
114						1841	3/31/2010	RRB ENERGY LTD.,	Moolarapatti	Tirupur	10.74	77.40
115						1842	3/31/2010	RRB ENERGY LTD.,	Govindhapuram	Coimbatore	10.73	77.41
116	C0072	Pariyur Amman Logistics	2	0.225	0.450	1802	3/31/2010	SOUTHERN WIND FARMS LTD.,	Maruthur	Tirupur	10.47	77.24
117						1815	3/31/2010	SOUTHERN WIND FARMS LTD.,	Maruthur	Tirupur	10.48	77.22
118	C0073A	Pariyur Amman Spinning Mills Pvt. Ltd.,	1	0.225	0.225	1816	3/31/2010	SOUTHERN WIND FARMS LTD.,	Maruthur	Tirupur	10.47	77.22

119	C0073B	Pariyur Amman Spinning Mills Pvt. Ltd.,	1	0.600	0.600	885	3/19/2010	RRB ENERGY LTD.,	Anupatti	Tirupur	10.96	77.23
120	C0075	Pramas Tea Industries	1	0.225	0.225	1817	3/31/2010	SOUTHERN WIND FARMS LTD.,	Moolarapatti	Tirupur	10.61	77.40
121	C0076	Shristi Cotspinn Pvt. Ltd.,	1	0.800	0.800	215	3/25/2010	ENERCON INDIA LTD.,	Kozhumankondan	Dindigul	10.58	77.45
122	C0077	Premdurai Exports Pvt. Ltd.,	4	0.600	2.400	807	3/31/2010	RRB ENERGY LTD.,	V. Kallipalayam	Tirupur	10.95	77.35
123						808	3/31/2010	RRB ENERGY LTD.,	V. Kallipalayam	Tirupur	10.95	77.34
124						809	3/31/2010	RRB ENERGY LTD.,	V. Kallipalayam	Tirupur	10.94	77.34
125						810	3/31/2010	RRB ENERGY LTD.,	V. Kallipalayam	Tirupur	10.94	77.33
126	C0078	R B Wovens Pvt. Ltd.,	2	0.800	1.600	1769	3/28/2010	ENERCON INDIA LTD.,	Chinnaputhur	Tirupur	10.74	77.43
127						1834	3/31/2010	ENERCON INDIA LTD.,	Kethalrev	Tirupur	10.76	77.44
128	C0079	R. Padma Seenivasan	1	0.250	0.250	3205	3/31/2010	CHIRANJEEVI WIND ENERGY LTD.,	Poigai	Tirunelveli	9.04	77.41
129	C0080	R.G. Selvarathi Coolie Mill	1	0.225	0.225	1764	3/28/2010	SOUTHERN WIND FARMS LTD.,	Athukinathupatti	Tirupur	10.70	77.31
130	C0081	Raja Spinners	1	0.600	0.600	747	3/27/2010	RRB ENERGY LTD.,	Bogampatti	Coimbatore	10.89	77.10
131	C0082	Rajashree Spintex Pvt. Ltd.,	1	0.850	0.850	83	5/18/2010	GAMESA WIND TURBINES PVT. LTD.,	Govindhapuram	Theni	9.91	77.50

132	C0084	Rasi G Energy Pvt. Ltd.,	1	1.500	1.500	1863	5/27/2010	SUZLON ENERGY LTD.,	Kundadam	Tirupur	10.83	77.44
133	C0085	Ribas Fabs	1	0.250	0.250	760	3/30/2010	PIONEER WINCON PVT. LTD.,	Varapatti	Coimbatore	10.96	77.27
134	C0087	S. Velumani	1	0.250	0.250	872	2/16/2010	PIONEER WINCON PVT. LTD.,	Vavipalaya m	Tirupur	10.88	77.28
135	C0089	Sakthe Animal Feeds	1	0.250	0.250	1824	3/31/2010	PIONEER WINCON PVT. LTD.,	Maruthur	Tirupur	10.75	77.37
136	C0090	Sakthi Masala Pvt. Ltd.,	2	1.500	3.000	232	3/20/2010	SUZLON ENERGY LTD.,	Vadachittur	Coimbatore	10.85	77.10
137						233	3/20/2010	SUZLON ENERGY LTD.,	Panapatti	Coimbatore	10.86	77.10
138	C0091	Sakthi Murugan Roller Flour Mills Ltd.,	1	0.250	0.250	776	3/31/2010	CHIRANJEEV I WIND ENERGY LTD.,	Kethanur	Tirupur	10.56	77.15
139	C0092	Salona Cotspin Ltd.,	2	0.800	1.600	216	3/25/2010	ENERCON INDIA LTD.,	Kozhumank ondan	Dindigul	10.56	77.45
140						216	3/25/2010	ENERCON INDIA LTD.,	Kozhumank ondan	Dindigul	10.56	77.45
141	C0096	Selvi Spinning Mill	1	0.800	0.800	1778	3/30/2010	ENERCON INDIA LTD.,	Varapalaya m	Tirupur	10.74	77.48
142	C0097	Senthil Hatcheries	2	0.225	0.450	895	3/27/2010	SOUTHERN WIND FARMS LTD.,	Anupatti	Tirupur	10.96	77.22
143						896	3/27/2010	SOUTHERN WIND FARMS LTD.,	Anupatti	Tirupur	10.97	77.22
144	C0098	Shakthi Murugan Textiles	2	0.600	1.200	3146	3/29/2010	RRB ENERGY LTD.,	Keelaveera nam	Tirunelveli	8.92	77.51
145						3180	3/31/2010	RRB ENERGY LTD.,	Keelaveera nam	Tirunelveli	8.92	77.50
146	C0099	Shiva Bharathi Syntex India Pvt. Ltd.,	2	0.225	0.450	1818	3/31/2010	SOUTHERN WIND FARMS LTD.,	Gudimangal am	Tirupur	10.67	77.31

147						1819	3/31/2010	SOUTHERN WIND FARMS LTD.,	Gudimangalam	Tirupur	10.68	77.31
148	C0100	Shri Ramathal Spinners	1	0.600	0.600	749	3/27/2010	RRB ENERGY LTD.,	Bogampatti	Coimbatore	10.90	77.10
149	C0101	Shri Vaikunth Paper & Board (Pr) Ltd.,	1	0.850	0.850	7	8/17/2010	GAMESA WIND TURBINES PVT. LTD.,	Thappukundu	Theni	9.93	77.47
150	C0103	SNQS Internationals	1	0.600	0.600	1852	4/15/2010	RRB ENERGY LTD.,	Maruthur	Tirupur	10.77	77.38
151	C0105	Speedline Spinners India Pvt. Ltd.,	1	0.800	0.800	1771	3/28/2010	ENERCON INDIA LTD.,	Kethalrev	Tirupur	10.75	77.44
152	C0106	Sree Kailai Spinners Pvt. Ltd.,	1	0.800	0.800	1781	3/30/2010	ENERCON INDIA LTD.,	Madathupalayam	Tirupur	10.76	77.47
153	C0108	Sri Balaji & Co.,	2	1.650	3.300	66	3/27/2010	VESTAS WIND TECHNOLOGY INDIA PVT. LTD.,	Vallalnathi	Theni	9.92	77.53
154						1768	3/28/2010	VESTAS WIND TECHNOLOGY INDIA PVT. LTD.,	Thottampatti	Tirupur	10.66	77.20
155	C0109	Sri Dhanalakshmi Sizing & Spinning Mill	5	0.600	3.000	3175	3/30/2010	RRB ENERGY LTD.,	Puliyur	Tirunelveli	8.60	77.20
156						3187	3/31/2010	RRB ENERGY LTD.,	Ayakudi	Tirunelveli	8.61	77.20
157						3188	3/31/2010	RRB ENERGY LTD.,	Ayakudi	Tirunelveli	8.60	77.21
158						3189	3/31/2010	RRB ENERGY LTD.,	Ayakudi	Tirunelveli	8.59	77.20
159						3190	3/31/2010	RRB ENERGY LTD.,	Ayakudi	Tirunelveli	8.60	77.20
160	C0110	Sri Iyyan Textile Mills Pvt. Ltd.,	1	0.850	0.850	137	8/13/2010	GAMESA WIND TURBINES PVT. LTD.,	Govindanagram	Theni	9.90	77.49

161	C0112	Sri Mahalakshmi Textiles	1	0.600	0.600	751	3/27/2010	RRB ENERGY LTD.,	Bogampatti	Coimbatore	10.89	77.10
162	C0113	Sri Manjulashmi Spinners	1	0.600	0.600	767	3/30/2010	RRB ENERGY LTD.,	Bogampatti	Coimbatore	10.89	77.10
163	C0114	Sri Navamani Wind Farms	2	0.250	0.500	1725	3/11/2010	PIONEER WINCON PVT. LTD.,	Naranapura m	Tirupur	10.74	77.40
164						1726	3/11/2010	PIONEER WINCON PVT. LTD.,	Naranapura m	Tirupur	10.74	77.40
165	C0115	Sri Seethalakshmi Steel Castings Pvt. Ltd.,	1	0.850	0.850	18	12/31/2010	GAMESA WIND TURBINES PVT. LTD.,	Koduvilarpatti	Theni	9.94	77.50
166	C0116	Sri Selvam Textiles	1	0.600	0.600	802	3/31/2010	RRB ENERGY LTD.,	Mallegound ampalayam	Tirupur	10.95	77.18
167		Sri Selvam Textiles	1	0.225	0.225	1821	3/31/2010	SOUTHERN WIND FARMS LTD.,	Athukinathu patti	Tirupur	10.71	77.31
168	C0117	Sri Siddivinayaka Cotton Corporation	1	1.650	1.650	71	3/27/2010	VESTAS WIND TECHNOLOGY INDIA PVT. LTD.,	G. Usilampatti	Theni	9.94	77.56
169	C0118	Sri Vigneswara Foundary	2	0.250	0.500	1727	3/11/2010	PIONEER WINCON PVT. LTD.,	Naranapura m	Tirupur	10.75	77.40
170						1728	3/11/2010	PIONEER WINCON PVT. LTD.,	Naranapura m	Tirupur	10.74	77.39
171	C0121	Star Plastics	1	0.600	0.600	938	3/31/2010	RRB ENERGY LTD.,	Varapatti	Coimbatore	10.88	77.18
172	C0122	Subam Papers Pvt. Ltd.,	2	0.850	1.700	79	3/31/2010	GAMESA WIND TURBINES PVT. LTD.,	Vallalnathi	Theni	9.90	77.52
173						81	5/18/2010	GAMESA WIND TURBINES	Vallalnathi	Theni	9.90	77.52

								PVT. LTD.,				
174	C0123	Sudharsan Exports	1	0.225	0.225	1820	3/31/2010	SOUTHERN WIND FARMS LTD.,	Gudimangalam	Tirupur	10.67	77.31
175	C0125	Sun Industrial Automations & Solutions	1	0.600	0.600	3098	3/25/2010	RRB ENERGY LTD.,	Sambavarv adakarai	Tirunelveli	8.98	77.37
176	C0126	Suresh Textiles	1	0.250	0.250	935	3/31/2010	CHIRANJEEV I WIND ENERGY LTD.,	Pannikkampatti	Tirupur	10.92	77.26
177	C0127	Sushrushah Medicare Centre Pvt. Ltd.,	1	0.250	0.250	2979	3/31/2010	CHIRANJEEV I WIND ENERGY LTD.,	Levenjipuram	Tirunelveli	8.10	77.34
178	C0128	Swathi Hatcheries	1	0.250	0.250	773	3/31/2010	CHIRANJEEV I WIND ENERGY LTD.,	Vadugapalayam	Tirupur	10.57	77.17
179	C0130	T.R. Venkatesan Chettiar & Sons Jewellers	1	0.250	0.250	1795	3/31/2010	PIONEER WINCON PVT. LTD.,	Maruthur	Tirupur	10.75	77.37
180	C0131	Tex Tech Industries (India) Pvt. Ltd.,	1	0.800	0.800	1779	3/30/2010	ENERCON INDIA LTD.,	Madathupalayam	Tirupur	10.75	77.48
181	C0133	Tirupur Thirukkumaran Textiles Pvt. Ltd.,	2	1.250	2.500	247	9/26/2010	SUZLON ENERGY LTD.,	Vadachittur	Coimbatore	10.85	77.08
182						250	9/28/2010	SUZLON ENERGY LTD.,	Panapatti	Coimbatore	10.87	77.10
183	C0136	Vetal Hi-Tech Industries	1	0.800	0.800	1770	3/28/2010	ENERCON INDIA LTD.,	Kethalrev	Tirupur	10.75	77.44
184	C0137	Vetal Textiles & Electronics Pvt. Ltd.,	1	0.800	0.800	1837	3/31/2010	ENERCON INDIA LTD.,	Madathupalayam	Tirupur	10.75	77.48
185	C0138	Viking Textiles Pvt. Ltd.,	1	1.250	1.250	249	9/28/2010	SUZLON ENERGY LTD.,	Mettubavi	Coimbatore	10.85	77.12
186	C0139	VKSM Cotton Mills Ltd.,	1	0.800	0.800	1780	3/30/2010	ENERCON INDIA LTD.,	Chinnaputhur	Tirupur	10.73	77.48

187	C0141	Wild Wind Renewables	1	0.250	0.250	1825	3/31/2010	PIONEER WINCON PVT. LTD.,	Naranapuram	Tirupur	10.73	77.37
188	C0142	Yash Metal Resources Pvt. Ltd.,	1	0.600	0.600	3062	3/20/2010	RRB ENERGY LTD.,	Sambavarv adakarai	Tirunelveli	8.98	77.37
189	C0143	Yennarkay R. Selvarathnam	1	0.600	0.600	783	3/31/2010	RRB ENERGY LTD.,	Varapatti	Coimbatore	10.90	77.11
190	C00001	Alagu Wind Mills	1	0.600	0.600	2019	2/14/2011	RRB ENERGY LTD.,	Thoppampatti	Tirupur	10.78	77.45
191	C00002	Anand Textiles	2	0.850	1.700	43	3/31/2011	GAMESA WIND TURBINES PVT. LTD.,	Kolumanguli	Tirupur	10.87	77.51
192						48	3/31/2011	GAMESA WIND TURBINES PVT. LTD.,	Vadugapalayam	Tirupur	10.82	77.53
193	C00003	Anangoor Textile Mills Pvt. Ltd.,	1	0.850	0.850	31	3/31/2011	GAMESA WIND TURBINES PVT. LTD.,	Sirukinaru	Tirupur	10.85	77.55
194	C00004	Angalakshmi Spinning Mill	1	0.600	0.600	3303	9/22/2010	RRB ENERGY LTD.,	Keelaveeranam	Tirunelveli	8.94	77.49
195	C00005	Annamalaiyar Spinners	1	0.600	0.600	1992	9/30/2010	RRB ENERGY LTD.,	Chinnaputhur	Tirupur	10.75	77.42
196	C00006	Arun Dye Chem	1	0.225	0.225	2035	3/23/2011	SOUTHERN WIND FARMS LTD.,	Munduvempatti	Tirupur	10.72	77.37
197	C00007	Balu Exports	4	0.600	2.400	835	9/15/2010	RRB ENERGY LTD.,	Chittambalam	Coimbatore	10.96	77.31
198						836	9/15/2010	RRB ENERGY LTD.,	Chittambalam	Coimbatore	10.96	77.30
199						837	9/15/2010	RRB ENERGY LTD.,	Chittambalam	Coimbatore	10.96	77.30
200						838	9/15/2010	RRB ENERGY LTD.,	Mathapur	Coimbatore	10.96	77.31

201	C00008 A	Best Corporation Ltd.,	2	0.600	1.200	1891	9/13/2010	RRB ENERGY LTD.,	Metrathi	Tirupur	10.68	77.34
202						2000	9/30/2010	RRB ENERGY LTD.,	Metrathi	Tirupur	10.68	77.34
203	C00008 B	Best Corporation Ltd.,	4	0.600	2.400	2056	3/29/2011	RRB ENERGY LTD.,	Karatholuvu	Tirupur	10.64	77.39
204						2057	3/30/2011	RRB ENERGY LTD.,	Karatholuvu	Tirupur	10.65	77.40
205						2058	3/30/2011	RRB ENERGY LTD.,	Karatholuvu	Tirupur	10.65	77.40
206						2059	3/30/2011	RRB ENERGY LTD.,	Karatholuvu	Tirupur	10.65	77.40
207	C00009	Bhagavathi Spinners	2	0.225	0.450	3622	3/31/2011	SOUTHERN WIND FARMS LTD.,	Achenpudur	Tirunelveli	9.06	77.30
208						3623	3/31/2011	SOUTHERN WIND FARMS LTD.,	Achenpudur	Tirunelveli	9.06	77.30
209	C00010	Chenniappa Yarn Spinners Pvt. Ltd.,	2	0.850	1.700	13	3/29/2011	GAMESA WIND TURBINES PVT. LTD.,	Suryanallur	Tirupur	10.84	77.49
210						19	3/29/2011	GAMESA WIND TURBINES PVT. LTD.,	Vadugapala yam	Tirupur	10.84	77.49
211	C00011	Cheran Spinner Ltd.,	2	0.850	1.700	150	9/28/2010	GAMESA WIND TURBINES PVT. LTD.,	Jangalpatti	Theni	9.87	77.48
212						151	9/28/2010	GAMESA WIND TURBINES PVT. LTD.,	Jangalpatti	Theni	9.87	77.48
213	C00012	Chiranjilal Spinners Pvt. Ltd.,	1	0.850	0.850	10	3/29/2011	GAMESA WIND TURBINES PVT. LTD.,	Kolumanguli	Tirupur	10.85	77.51

214	C00013	Chiranjeevi Wind Energy Ltd.,	1	0.250	0.250	8	9/30/2010	CHIRANJEEVI WIND ENERGY LTD.,	Mallegound ampalayam	Tirupur	10.58	77.11
215	C00014	Chola Spinning Mills Pvt. Ltd.,	2	0.750	1.500	3666	3/31/2011	PIONEER WINCON PVT. LTD.,	Manoor	Tirunelveli	8.86	77.66
216						3670	3/31/2011	PIONEER WINCON PVT. LTD.,	Mavadi	Tirunelveli	8.84	77.67
217	C00015	Concorde Agencies	1	0.600	0.600	3346	9/28/2010	RRB ENERGY LTD.,	Kazhuneerkulam	Tirunelveli	8.89	77.45
218	C00016	Concorde Textiles	1	0.600	0.600	3332	9/27/2010	RRB ENERGY LTD.,	Kazhuneerkulam	Tirunelveli	8.90	77.45
219	C00017	Doller Industries Ltd.,	1	0.500	1.500	3839	8/17/2011	SUZLON ENERGY LTD.,	Chinnakovil ankulam	Tirunelveli	9.08	77.54
220	C00018	Forknits	1	0.600	0.600	834	9/15/2010	RRB ENERGY LTD.,	Chittambalam	Tirupur	10.96	77.31
221	C00019	G.R. Natarajan & Co.,	1	0.600	0.600	226	3/18/2011	SUZLON ENERGY LTD.,	Kozhumankondan	Dindigul	10.55	77.45
222	C00020	Greenland Paper Mills Ltd.,	1	0.250	1.250	2054	3/29/2011	SUZLON ENERGY LTD.,	Manurpalayam	Tirupur	10.79	77.29
223	C00021	GVS Spinners Pvt. Ltd.,	1	0.750	0.750	3847	9/2/2011	PIONEER WINCON PVT. LTD.,	Manoor	Tirunelveli	8.85	77.67
224	C00022	Hariharan Spinners Ltd.,	1	0.850	0.850	3901	9/28/2011	GAMESA WIND TURBINES PVT. LTD.,	Gangaikondan	Tirunelveli	8.85	77.80
225	C00023	Hindustan Hardwares	1	0.850	0.850	153	9/28/2010	GAMESA WIND TURBINES PVT. LTD.,	Govindanagram	Theni	9.88	77.49
226	C00024	Hindustan Spinners "B" Unit	1	0.850	0.850	152	9/28/2010	GAMESA WIND TURBINES PVT. LTD.,	Govindanagram	Theni	9.87	77.49

227	C00025	Hindustan Textiles	1	0.850	0.850	148	9/28/2010	GAMESA WIND TURBINES PVT. LTD.,	Seepalakottai	Theni	9.86	77.47
228	C00026	Iswari Spinning Mills,	1	0.600	0.600	2015	10/28/2010	RRB ENERGY LTD.,	Thoppampatti	Tirupur	10.78	77.47
229	C00027	Janaki Cotton Mills Ltd.,	1	0.600	0.600	201	9/27/2011	RRB ENERGY LTD.,	Pannaipuram	Theni	9.87	77.33
230	C00028	Jayachandra Bearings India Pvt. Ltd.,	1	0.250	0.250	2062	3/30/2011	SHRIRAM EPC LTD.,	Eragampatti	Tirupur	10.80	77.39
231	C00029	Jayavarma Textiles Pvt. Ltd.,	3	0.850	2.550	1	3/28/2011	GAMESA WIND TURBINES PVT. LTD.,	Vadugapalayam	Tirupur	10.82	77.52
232						42	3/31/2011	GAMESA WIND TURBINES PVT. LTD.,	Suryanallur	Tirupur	10.82	77.50
233						46	3/31/2011	GAMESA WIND TURBINES PVT. LTD.,	Suryanallur	Tirupur	10.85	77.49
234	C00030 A	JRE Valves & Pumps Pvt. Ltd.,	1	0.250	0.250	3252	7/12/2010	PIONEER WINCON PVT. LTD.,	Sernthamangalam	Tirunelveli	9.04	77.43
235	C00030 B	JRE Valves & Pumps Pvt. Ltd.,	1	0.750	0.750	3946	9/30/2011	PIONEER WINCON PVT. LTD.,	Kambhaneri Pudhukudi Part II	Tirunelveli	9.05	77.37
236	C00031	JVS Export	1	1.250	1.250	291	9/28/2011	SUZLON ENERGY LTD.,	Bogampatti	Coimbatore	10.89	77.11
237	C00032	K.A.S. Industries India Ltd.,	3	0.600	1.800	3563	3/28/2011	RRB ENERGY LTD.,	Kazhuneerkulam	Tirunelveli	8.89	77.45
238						3654	3/31/2011	RRB ENERGY LTD.,	Mayamankurichi	Tirunelveli	8.91	77.47
239						3661	3/31/2011	RRB ENERGY LTD.,	Mayamankurichi	Tirunelveli	8.91	77.48

240	C00033 A	K.S.R. Textile Mills Pvt. Ltd.,	1	0.800	0.800	2047	3/26/2011	ENERCON INDIA LTD.,	Chinnakam palayam	Tirupur	10.70	77.46
241	C00033 B	K.S.R. Textile Mills Pvt. Ltd.,	1	0.250	0.250	3876	9/16/2011	PIONEER WINCON PVT. LTD.,	Urmelazhagian	Tirunelveli	9.03	77.36
242	C00034	Kandhan Knits	1	0.850	0.850	34	3/31/2011	GAMESA WIND TURBINES PVT. LTD.,	Punganthuari	Tirupur	10.85	77.56
243	C00035	Karpagham Tex	1	0.600	0.600	827	7/31/2010	RRB ENERGY LTD.,	Bogampatti	Coimbatore	10.91	77.14
244	C00036	Kayaar Exports Pvt. Ltd.,	2	1.000	2.000	3432	9/30/2010	WINWIND POWER ENERGY PVT. LTD.,	South Valliyoor	Tirunelveli	8.34	77.63
245						3433	9/30/2010	WINWIND POWER ENERGY PVT. LTD.,	South Valliyoor	Tirunelveli	8.34	77.63
246	C00037	Kesharinandan Knit Fabrics Pvt. Ltd.,	1	0.750	0.750	841	9/28/2010	PIONEER WINCON PVT. LTD.,	Elavanthi	Tirupur	10.93	77.29
247	C00038	Kurinji Spinning Mills Pvt. Ltd.,	1	0.850	0.850	32	3/31/2011	GAMESA WIND TURBINES PVT. LTD.,	Sirukinaru	Tirupur	10.85	77.56
248	C00039	Kutti Spinners Pvt. Ltd.,	1	1.250	1.250	2025	3/3/2011	SUZLON ENERGY LTD.,	Manurpalayam	Tirupur	10.82	77.31
249	C00040	Lambodhara Textiles Ltd.,	1	1.250	1.250	3520	3/22/2011	SUZLON ENERGY LTD.,	Koodankulam	Tirunelveli	8.21	77.70
250	C00041	Lax Blue Metals Pvt. Ltd.,	5	0.225	1.125	3457	12/21/2010	SOUTHERN WIND FARMS LTD.,	Thandayarkulam	Tirunelveli	8.30	77.60
251						3458	12/21/2010	SOUTHERN WIND FARMS LTD.,	Thandayarkulam	Tirunelveli	8.31	77.60
252						3459	12/21/2010	SOUTHERN WIND FARMS	Thandayarkulam	Tirunelveli	8.30	77.59

								LTD.,				
253						3468	12/30/2010	SOUTHERN WIND FARMS LTD.,	Thandayarkulam	Tirunelveli	8.31	77.60
254						3469	12/30/2010	SOUTHERN WIND FARMS LTD.,	Thandayarkulam	Tirunelveli	8.31	77.60
255	C00042	Lucky Yarn Tex India Ltd.,	10	0.250	2.500	3854	9/10/2011	PIONEER WINCON PVT. LTD.,	Kilankadu	Tirunelveli	9.02	77.34
256						3855	9/10/2011	PIONEER WINCON PVT. LTD.,	Kilankadu	Tirunelveli	9.02	77.35
257						3856	9/10/2011	PIONEER WINCON PVT. LTD.,	Kilankadu	Tirunelveli	9.02	77.35
258						3857	9/10/2011	PIONEER WINCON PVT. LTD.,	Kilankadu	Tirunelveli	9.02	77.35
259						3858	9/10/2011	PIONEER WINCON PVT. LTD.,	Kilankadu	Tirunelveli	9.02	77.35
260						3859	9/10/2011	PIONEER WINCON PVT. LTD.,	Kambhaneri Pudhukudi	Tirunelveli	9.03	77.36
261						3860	9/10/2011	PIONEER WINCON PVT. LTD.,	Kambhaneri Pudhukudi	Tirunelveli	9.04	77.36
262						3861	9/10/2011	PIONEER WINCON PVT. LTD.,	Kambhaneri Pudhukudi	Tirunelveli	9.04	77.36
263						3862	9/10/2011	PIONEER WINCON PVT. LTD.,	Nainaragaram	Tirunelveli	9.03	77.36
264						3863	9/10/2011	PIONEER WINCON PVT. LTD.,	Nainaragaram	Tirunelveli	9.03	77.36

265	C00043	M. Thiagarajan	1	0.750	0.750	4	9/28/2010	PIONEER WINCON PVT. LTD.,	Vavipalaya m	Tirupur	10.90	77.31
266	C00044	Madras Hardtools Pvt. Ltd.,	1	0.250	0.250	167	7/31/2010	CHIRANJEEVI WIND ENERGY LTD.,	Poorandam palayam	Coimbatore	10.52	77.10
267	C00045 A	Mothi Spinner Ltd.,	4	0.600	2.400	3380	9/29/2010	RRB ENERGY LTD.,	Keelapavoor	Tirunelveli	8.91	77.44
268						3381	9/29/2010	RRB ENERGY LTD.,	Keelapavoor	Tirunelveli	8.91	77.44
269						3417	9/30/2010	RRB ENERGY LTD.,	Keelapavoor	Tirunelveli	8.90	77.43
270						3418	9/30/2010	RRB ENERGY LTD.,	Keelapavoor	Tirunelveli	8.89	77.43
271	C00045 B	Mothi Spinner Ltd.,	2	0.750	1.500	3944	9/30/2011	PIONEER WINCON PVT. LTD.,	Kambhaneri Pudhukudi Part II	Tirunelveli	9.05	77.36
272						3945	9/30/2011	PIONEER WINCON PVT. LTD.,	Kambhaneri Pudhukudi Part II	Tirunelveli	9.04	77.36
273	C00046	Murugan Textiles	2	0.850	1.700	30	3/31/2011	GAMESA WIND TURBINES PVT. LTD.,	Sankaranda mpalayam	Tirupur	10.84	77.58
274						39	3/31/2011	GAMESA WIND TURBINES PVT. LTD.,	Vadugapala yam	Tirupur	10.80	77.52
275	C00047	Muthuraam Poly Spin	2	0.225	0.450	3594	3/31/2011	SOUTHERN WIND FARMS LTD.,	Achenpudur	Tirunelveli	9.06	77.30
276						3596	3/31/2011	SOUTHERN WIND FARMS LTD.,	Achenpudur	Tirunelveli	9.06	77.30
277	C00048	N. Chandran	1	0.850	0.850	863	3/31/2011	GAMESA WIND TURBINES PVT. LTD.,	Vavipalaya m	Tirupur	10.90	77.26

278	C00049	N. Danissh Plaastics	1	0.600	0.600	1987	9/30/2010	RRB ENERGY LTD.,	Gathelrev	Tirupur	10.77	77.43
279	C00050	N.Krishnasamy	4	0.250	1.000	2016	1/29/2011	SIVA WINDTURBINE INDIA PVT. LTD.,	Metrathi	Tirupur	10.66	77.35
280						2017	1/29/2011	SIVA WINDTURBINE INDIA PVT. LTD.,	Metrathi	Tirupur	10.66	77.36
281						2038	3/23/2011	SIVA WINDTURBINE INDIA PVT. LTD.,	Naranapura m	Tirupur	10.73	77.37
282						2086	5/31/2011	SIVA WINDTURBINE INDIA PVT. LTD.,	Naranapura m	Tirupur	10.73	77.37
283	C00051	Narasu's Spinning Mills	1	1.250	1.250	262	3/23/2011	SUZLON ENERGY LTD.,	Kondampatti	Coimbatore	10.82	77.06
284	C00052	Neeraj Enterprises Pvt. Ltd.,	1	0.250	0.250	245	9/23/2010	PIONEER WINCON PVT. LTD.,	Kattampatti	Coimbatore	10.83	77.14
285	C00053	NKCM Spinners Pvt. Ltd.,	1	0.750	0.750	3669	3/31/2011	PIONEER WINCON PVT. LTD.,	Mavadi	Tirunelveli	8.83	77.67
286	C00054	Novacom Digitronics Pvt. Ltd.,	2	0.250	0.500	2049	3/27/2011	CHIRANJEEV I WIND ENERGY LTD.,	Eragampatti	Tirupur	10.81	77.39
287						2050	3/27/2011	CHIRANJEEV I WIND ENERGY LTD.,	Eragampatti	Tirupur	10.81	77.39
288	C00055	NSP Tex	1	0.250	0.250	283	4/15/2011	CHIRANJEEV I WIND ENERGY LTD.,	Varapatti	Coimbatore	10.89	77.20
289	C00056	SG Wind Farm Pvt. Ltd.,	15	0.225	3.375	1895	9/22/2010	SOUTHERN WIND FARMS LTD.,	Bellampatti	Tirupur	10.74	77.36

290						1896	9/22/2010	SOUTHERN WIND FARMS LTD.,	Bellampatti	Tirupur	10.73	77.36
291						1897	9/22/2010	SOUTHERN WIND FARMS LTD.,	Naranapuram	Tirupur	10.74	77.37
292						1904	9/23/2010	SOUTHERN WIND FARMS LTD.,	Bellampatti	Tirupur	10.79	77.38
293						1905	9/24/2010	SOUTHERN WIND FARMS LTD.,	Bellampatti	Tirupur	10.79	77.38
294						1906	9/24/2010	SOUTHERN WIND FARMS LTD.,	Bellampatti	Tirupur	10.79	77.38
295						1907	9/24/2010	SOUTHERN WIND FARMS LTD.,	Bellampatti	Tirupur	10.79	77.38
296						1914	9/26/2010	SOUTHERN WIND FARMS LTD.,	Munduvella mpatti	Tirupur	10.78	77.38
297						1916	9/29/2010	SOUTHERN WIND FARMS LTD.,	Bellampatti	Tirupur	10.78	77.38
298						1916	9/29/2010	SOUTHERN WIND FARMS LTD.,	Bellampatti	Tirupur	10.78	77.38
299						1917	9/29/2010	SOUTHERN WIND FARMS LTD.,	Bellampatti	Tirupur	10.78	77.38
300						1918	9/29/2010	SOUTHERN WIND FARMS LTD.,	Bellampatti	Tirupur	10.79	77.39
301						1953	9/30/2010	SOUTHERN WIND FARMS LTD.,	Bellampatti	Tirupur	10.79	77.39
302						1954	9/30/2010	SOUTHERN WIND FARMS LTD.,	Bellampatti	Tirupur	10.79	77.39

303						1960	9/30/2010	SOUTHERN WIND FARMS LTD.,	Naranapuram	Tirupur	10.79	77.39
304	C00057	Pallava Textiles Ltd.,	1	1.650	1.650	1893	9/20/2010	VESTAS WIND TECHNOLOGY INDIA PVT. LTD.,	Somavarapatti	Tirupur	10.66	77.22
305	C00058	PKPN Spinning Mills Pvt. Ltd.,	2	0.750	1.500	3667	3/31/2011	PIONEER WINCON PVT. LTD.,	Mavadi	Tirunelveli	8.83	77.68
306						3668	3/31/2011	PIONEER WINCON PVT. LTD.,	Nanjankulam	Tirunelveli	8.83	77.68
307	C00059	Pon Pure Chem Pvt. Ltd.,	1	0.850	0.850	18	3/29/2011	GAMESA WIND TURBINES PVT. LTD.,	Vadugapalayam	Tirupur	10.83	77.52
308	C00060 A	Prabhu Textiles	1	0.225	0.225	3576	3/30/2011	SOUTHERN WIND FARMS LTD.,	Melamaruthappapuram	Tirunelveli	9.01	77.53
309	C00060 B	Prabhu Textiles	1	0.600	0.600	833	8/31/2010	RRB ENERGY LTD.,	Panikkampatti	Tirupur	10.97	77.23
310	C00061	Prachidhi Spinners Pvt. Ltd.,	1	0.600	0.600	2020	2/21/2011	SUZLON ENERGY LTD.,	Madathupalayam	Tirupur	10.77	77.47
311	C00062	Precot Meridian Ltd.,	2	1.500	3.000	2002	10/1/2010	SUZLON ENERGY LTD.,	Eragampatti	Tirupur	10.81	77.39
312						2007	10/8/2010	SUZLON ENERGY LTD.,	Manurpalayam	Tirupur	10.82	77.34
313	C00063	Rajashree Spintex Pvt. Ltd.,	1	0.850	0.850	3	3/28/2011	GAMESA WIND TURBINES PVT. LTD.,	Kannankovil	Tirupur	10.82	77.51
314	C00064	Raju Spinning Mills Pvt. Ltd.,	1	1.500	1.500	3568	3/29/2011	SUZLON ENERGY LTD.,	Karaichchuttu Pudur	Tirunelveli	8.30	77.83
315	C00065	Rasi G Energy Pvt. Ltd.,	3	1.500	4.500	2022	2/25/2011	SUZLON ENERGY LTD.,	Periyakomarpalayam	Tirupur	10.79	77.32

316						2023	2/25/2011	SUZLON ENERGY LTD.,	Periyakomara rapalayam	Tirupur	10.78	77.32
317						2024	2/25/2011	SUZLON ENERGY LTD.,	Periyakomara rapalayam	Tirupur	10.77	77.33
318	C00066	Sakthi Murugan Agro Foods Ltd.,	2	0.250	0.500	2065	3/31/2011	CHIRANJEEV I WIND ENERGY LTD.,	Eragampatti	Tirupur	10.49	77.25
319						2066	3/31/2011	CHIRANJEEV I WIND ENERGY LTD.,	Eragampatti	Tirupur	10.50	77.25
320	C00067	Sakthi Murugan Roller Flour Mills Ltd.,	2	0.250	0.500	868	3/31/2011	CHIRANJEEV I WIND ENERGY LTD.,	Vathambacheri	Coimbatore	10.55	77.17
321						869	3/31/2011	CHIRANJEEV I WIND ENERGY LTD.,	Vathambacheri	Coimbatore	10.55	77.16
322	C00068	Santhi Processing Unit Pvt. Ltd.,	3	0.250	0.750	3865	9/13/2011	PIONEER WINCON PVT. LTD.,	Urmelazhagian	Tirunelveli	9.03	77.36
323						3866	9/13/2011	PIONEER WINCON PVT. LTD.,	Urmelazhagian	Tirunelveli	9.03	77.36
324						3867	9/13/2011	PIONEER WINCON PVT. LTD.,	Urmelazhagian	Tirunelveli	9.04	77.36
325	C00069	Sengunthur Mills Pvt. Ltd.,	1	1.250	1.250	2021	2/25/2011	SUZLON ENERGY LTD.,	Manurpalayam	Tirupur	10.80	77.30
326	C00070	Senthil Hatcheries	2	0.225	0.450	999	8/28/2010	SOUTHERN WIND FARMS LTD.,	Anupatti	Tirupur	10.96	77.22
327						1000	8/28/2010	SOUTHERN WIND FARMS LTD.,	Anupatti	Tirupur	10.96	77.22
328	C00071	Senthil Nathan Spinning Mills Pvt. Ltd.,	1	0.800	0.800	227	3/23/2011	ENERCON INDIA LTD.,	Kottathurai	Dindigul	10.64	77.49

329	C00072	Seyadu Beedi Company	3	0.850	2.550	3559	3/28/2011	GAMESA WIND TURBINES PVT. LTD.,	Palankottai	Tirunelveli	9.13	77.66
330						3583	3/29/2011	GAMESA WIND TURBINES PVT. LTD.,	Mahendravad di	Tirunelveli	9.12	77.66
331						3588	3/30/2011	GAMESA WIND TURBINES PVT. LTD.,	Palankottai	Tirunelveli	9.13	77.67
332	C00073	Shri Manjulashmi Spinners	1	0.600	0.600	1989	9/30/2010	RRB ENERGY LTD.,	Chinnaputh ur	Tirupur	10.74	77.42
333	C00074	Shri Rohith Spinners Pvt. Ltd.,	1	0.600	0.600	1988	9/30/2010	RRB ENERGY LTD.,	Gathelrev	Tirupur	10.80	77.43
334	C00075	SJLT Spinning Mills Pvt. Ltd.,	1	1.000	1.000	3431	9/30/2010	WINWIND POWER ENERGY PVT. LTD.,	South Valliyoor Part II	Tirunelveli	8.35	77.62
335	C00076	SMP Textiles Mills Pvt. Ltd.,	1	0.600	0.600	848	9/30/2010	RRB ENERGY LTD.,	Varapatti	Coimbatore	10.90	77.17
336	C00077	Sree Jagathguru Textiles Mills Pvt. Ltd.,	3	1.250	6.750	2052	3/27/2011	SUZLON ENERGY LTD.,	Eragampatti	Tirupur	10.82	77.37
337						2055	3/29/2011	SUZLON ENERGY LTD.,	Kasilingamp alayam	Tirupur	10.84	77.32
338						2145	9/13/2011	SUZLON ENERGY LTD.,	Manurpalay am	Tirupur	10.80	77.30
339			2	1.500		261	3/17/2011	SUZLON ENERGY LTD.,	Periyakalant hai	Coimbatore	10.81	77.11
340						3542	3/25/2011	SUZLON ENERGY LTD.,	Chinnakovil ankulam	Tirunelveli	9.09	77.54
341	C00078	Sree Kailai Spinners Pvt. Ltd.,	2	0.225	0.450	3577	3/30/2011	SOUTHERN WIND FARMS LTD.,	Naveneetha krishnapura m	Tirunelveli	9.01	77.52
342						3579	3/30/2011	SOUTHERN WIND FARMS	Naveneetha krishnapura	Tirunelveli	9.02	77.54

								LTD.,	m			
343	C00079	Sri Balaji Spinning Mills	2	0.250	0.500	2029	3/15/2011	PIONEER WINCON PVT. LTD.,	Eragampatti	Tirupur	10.49	77.24
344						2030	3/15/2011	PIONEER WINCON PVT. LTD.,	Eragampatti	Tirupur	10.49	77.24
345	C00080	Sri Balaji Textiles	1	0.600	0.600	839	9/28/2010	RRB ENERGY LTD.,	Panikkampatti	Tirupur	10.97	77.24
346	C00081 A	Sri Dhanalakshmi Sizing & Spinning Mill	5	0.600	3.000	3251	7/9/2010	RRB ENERGY LTD.,	Ayakudi	Tirunelveli	8.61	77.22
347						3255	7/14/2010	RRB ENERGY LTD.,	Kodikurichi	Tirunelveli	8.61	77.19
348						3256	7/14/2010	RRB ENERGY LTD.,	Kodikurichi	Tirunelveli	8.61	77.19
349						3231	5/24/2010	RRB ENERGY LTD.,	Tenkasi	Tirunelveli	8.59	77.20
350						3232	5/28/2010	RRB ENERGY LTD.,	Ayakudi	Tirunelveli	8.61	77.20
351	C00081 B	Sri Dhanalakshmi Sizing and Spinning Mill	5	0.600	3.000	3688	3/31/2011	RRB ENERGY LTD.,	Puliyur	Tirunelveli	8.59	77.22
352						3689	3/31/2011	RRB ENERGY LTD.,	Puliyur	Tirunelveli	8.60	77.22
353						3728	4/28/2011	RRB ENERGY LTD.,	Puliyur	Tirunelveli	8.58	77.21
354						3729	4/28/2011	RRB ENERGY LTD.,	Puliyur	Tirunelveli	8.59	77.21
355						3730	4/29/2011	RRB ENERGY LTD.,	Puliyur	Tirunelveli	8.60	77.21
356	C00081 C	Sri Dhanalakshmi Sizing and Spinning Mill	1	1.500	1.500	83	9/30/2011	REGEN POWERTECH PVT. LTD.,	Anikadavu	Tirupur	10.73	77.17
357	C00082 A	Sri Jagannatha Spinners	1	0.600	1.200	861	3/31/2011	RRB ENERGY LTD.,	Bogampatti	Coimbatore	10.92	77.13

358	C00082 B	Sri Jagannatha Spinners	1	0.600		168	8/9/2010	RRB ENERGY LTD.,	Vadavalli	Coimbatore	10.92	77.14
359	C00083	Sri Thangam Spinners India Pvt. Ltd.,	4	0.225	0.900	3546	3/26/2011	SOUTHERN WIND FARMS LTD.,	Karuvantha	Tirunelveli	8.98	77.49
360						3547	3/26/2011	SOUTHERN WIND FARMS LTD.,	Karuvantha	Tirunelveli	8.98	77.49
361						3548	3/26/2011	SOUTHERN WIND FARMS LTD.,	Karuvantha	Tirunelveli	8.97	77.49
362						3549	3/26/2011	SOUTHERN WIND FARMS LTD.,	Karuvantha	Tirunelveli	8.97	77.49
363	C00084	Sri V Balaji Spinning Mills India Pvt. Ltd.,	1	0.250	0.250	2028	3/15/2011	PIONEER WINCON PVT. LTD.,	Eragampatti	Tirupur	10.49	77.24
364	C00085	Sri Valliyarasi Yarns Pvt. Ltd.,	1	0.600	0.600	2069	3/31/2011	RRB ENERGY LTD.,	Karatholuvu	Tirupur	10.64	77.39
365	C00086	Sri Vela Smelters Pvt. Ltd.,	1	0.850	0.850	35	3/31/2011	GAMESA WIND TURBINES PVT. LTD.,	Punganthuari	Tirupur	10.85	77.56
366	C00087	Sri Venkattalakshmi Textiles	1	0.225	0.225	3545	3/26/2011	SOUTHERN WIND FARMS LTD.,	Karuvantha	Tirunelveli	8.97	77.49
367	C00088	Sri Vinayakha Spinning Mills Pvt. Ltd.,	1	0.600	0.600	3483	3/9/2011	RRB ENERGY LTD.,	Poolankulam	Tirunelveli	8.86	77.43
368	C00089	Suriya Spinning Mills	1	0.250	0.250	856	3/10/2011	PIONEER WINCON PVT. LTD.,	Kethanur	Tirupur	10.93	77.25
369	C00090	Tex Tech Indo (India) Pvt. Ltd.,	1	0.600	0.600	174	3/31/2011	RRB ENERGY LTD.,	Sankarapuram	Theni	9.92	77.34
370	C00091	Tirupur Cotton Company	1	0.250	0.250	164	7/12/2010	PIONEER WINCON PVT. LTD.,	Vathambacheri	Coimbatore	10.54	77.15

371	C00092 A	TT Industries	1	1.250	1.250	2053	3/29/2011	SUZLON ENERGY LTD.,	Muthiampatt i	Tirupur	10.79	77.32
372	C00092 B	TT Industries	1	1.250	1.250	2174	9/30/2011	SUZLON ENERGY LTD.,	Eragampatti	Tirupur	10.38	77.37
373	C00093	Veejay Syntex Pvt. Ltd.,	1	0.800	0.800	225	9/23/2010	ENERCON INDIA LTD.,	Kottathurai	Dindigul	10.64	77.49
374	C00094	Matspin India Pvt. Ltd.,	3	0.850	2.550	9	3/29/2011	GAMESA WIND TURBINES PVT. LTD.,	Kolumanguli	Tirupur	10.87	77.51
375						40	3/31/2011	GAMESA WIND TURBINES PVT. LTD.,	Kolumanguli	Tirupur	10.87	77.51
376						41	3/31/2011	GAMESA WIND TURBINES PVT. LTD.,	Sirukinaru	Tirupur	10.87	77.55
377	C00095 A	Viking Knitters	3	0.850	2.550	23	3/31/2011	GAMESA WIND TURBINES PVT. LTD.,	Sirukinaru	Tirupur	10.82	77.55
378						26	3/31/2011	GAMESA WIND TURBINES PVT. LTD.,	Sirukinaru	Tirupur	10.82	77.56
379						27	3/31/2011	GAMESA WIND TURBINES PVT. LTD.,	Sirukinaru	Tirupur	10.82	77.57
380	C00095 B	Viking Knitters	2	1.250	2.500	2161	9/29/2011	SUZLON ENERGY LTD.,	Manurpalay am	Tirupur	10.82	77.31
381						2163	9/29/2011	SUZLON ENERGY LTD.,	Eragampatti	Tirupur	10.81	77.37
382	C00096	Viking Textiles Pvt. Ltd.,	5	0.850	4.250	49	3/31/2011	GAMESA WIND TURBINES PVT. LTD.,	Sirukinaru	Tirupur	10.81	77.56

383						84	9/24/2011	GAMESA WIND TURBINES PVT. LTD.,	Sirukinaru	Tirupur	10.81	77.53
384						85	9/24/2011	GAMESA WIND TURBINES PVT. LTD.,	Sirukinaru	Tirupur	10.80	77.50
385						86	9/24/2011	GAMESA WIND TURBINES PVT. LTD.,	Vadugapala yam	Tirupur	10.83	77.56
386						87	9/24/2011	GAMESA WIND TURBINES PVT. LTD.,	Varapalaya m	Tirupur	10.84	77.54
387	C00097	VKSM Cotton Mills Ltd.,	1	0.850	0.850	20	3/31/2011	GAMESA WIND TURBINES PVT. LTD.,	Vadugapala yam	Tirupur	10.83	77.53
388	C00098	VSM Weaves India Ltd.,	4	0.600	2.400	167	3/31/2011	RRB ENERGY LTD.,	T. Meenachipu ram	Theni	9.88	77.34
389						168	3/31/2011	RRB ENERGY LTD.,	T. Meenachipu ram	Theni	9.88	77.34
390						169	3/31/2011	RRB ENERGY LTD.,	T. Meenachipu ram	Theni	9.88	77.34
391						170	3/31/2011	RRB ENERGY LTD.,	T. Meenachipu ram	Theni	9.89	77.34
392	C00099	VXL Systems	2	0.800	1.600	223	9/16/2010	ENERCON INDIA LTD.,	Kottathurai	Dindigul	10.64	77.47
393						2046	3/26/2011	ENERCON INDIA LTD.,	Chinnakam palayam	Tirupur	10.70	77.46

394	C00100	Water World	1	0.250	0.250	260	9/4/2010	CHIRANJEEV I WIND ENERGY LTD.,	Poorandam palayam	Coimbatore	10.52	77.11
395	C00101	Wild Wind Renewables	1	0.250	0.250	1881	7/13/2010	PIONEER WINCON PVT. LTD.,	Naranapura m	Tirupur	10.75	77.37
396	C00102	Yash Metal & Alloys	1	0.600	0.600	3564	3/28/2011	RRB ENERGY LTD.,	Keelapavoo r	Tirunelveli	8.90	77.44

APPENDIX 2:

Contribution of Project Activity towards Sustainable Development

The project participants' view on the contribution of this project activity towards sustainable development follows these four indicators as explained below:

Social well-being:

- Improves electricity availability in the region and reduces electricity deficit situation in Tamilnadu;
- Contribution towards the policy objectives of Government of India and Government of Tamilnadu of incremental capacity from renewable sources¹²;
- The Project activity has created employment opportunities for the local people during the erection and commissioning of the WTG;
- Project activity promotes infrastructural development like approach roads in the areas where the Project activity is located.

Environmental well being:

- CO₂ abatement through use of renewable energy.
- The project activity does not lead to any emissions like (SO_x, NO_x, Suspended Particulate Matters (SPM), etc). Thus the project activity would displace an equivalent quantum of electricity generated by the fossil fuel dominated grid-mix, thus resulting in reduction of the corresponding local air pollutants (NO_x, SO₂, Suspended Particulate Matters (SPM), etc) and environmental impacts caused by usage of fossil fuels for electricity generation.
- Use of renewable energy source (wind energy) for energy generation helps in conservation of natural resources like coal and petroleum fuels.

Economic well being:

- The project activity results in generation of additional employment opportunities directly and indirectly which helps improving the standard of living of the people in and around the project activity location.
- VCS provides financial incentives, which encourage channeling more investment into cleaner energy projects and also result in improved returns to the project stakeholders.
- It also promotes industrial growth by catering to the energy needs arising out of the supply-demand gap of electricity.
- Infrastructural development conceive from implementation of project activity shall lead to the economic development of the local people.

Technological well being:

- The technology leads to utilization of environmentally safe and sound technologies in power sector. The project demonstrates harnessing only wind power potential in the region and doesn't consume any depleting resources like coal and other fossil fuel resources. Hence the project technology contributes to the national energy and ecological security
- The project encourages other promoters to adopt similar technology in the relevant sector and hence the project leads to technological well being.
- Increased investment in wind energy projects will further push R&D efforts by technology providers to develop more efficient and better machinery in future.

¹² http://www.tn.gov.in/policynotes/energy_2.htm

Further to the above, TASMA is aware of the **guidelines by Indian DNA on commitment of 2% of CDM revenue towards sustainable development**. TASMA is being submitted separately a formal undertaking to spend around 2% of annual CER revenue of this project for various sustainable development activities/initiatives to DNA. The details of Monitorable action plan of TASMA to utilise 2% of CDM revenue towards sustainable development is as follows:

A). Identification of villages surrounding the project/installations and key developmental issues faced by them

Identified Villages	Total Population	Key issues for development
Nagercoil	1,486	Some of the preliminary key issues for development are as follows; • Donation to Old age homes • Sanitation and Solid Waste disposal – Sanitation and solid waste disposal systems will be funded to improve hygiene amongst local residents • School Education Program – School programs educating students on the need to protect the environment through energy and water conservation and other environment-friendly activities will be funded. • Conduct Free Medical Camps • Improving the standards of primary schools by way of donations • Improving Public Convenience Systems
Alangulam	1,474	
Neikkarapatti	992	
Thappukundu	1,520	

B). Plan for sharing 2% of the CERs revenues (village wise)

List the activities/support PP like provide to the identified villages			
S No	Village Name	Activities/Support proposed over the project life time	Approximate amount in INR
1	Nagercoil	Some of the preliminary key issues for development are as follows; • Donation to Old age homes • Sanitation and Solid Waste disposal – Sanitation and solid waste disposal systems will be funded to improve hygiene amongst local residents • School Education Program – School programs educating students on the need to protect the environment through energy and	INR 1,16,08,800/- (Rupees One Crore Sixteen Lakh Eight Thousand and Eight Hundred Only) for a fixed crediting period of Ten (10) Years.
2	Alangulam		
3	Neikkarapatti		
4	Thappukundu		

		water conservation and other environment-friendly activities will be funded. • Conducting Free Medical Camps • Improving the standards of primary schools by way of donations • Improving Public Convenience Systems	
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C). Implementation of the plan (provide details as applicable)

How it will be implemented	Who will implement the plan			
	PP	Villagers	Villagers and PP	Others
	✓			
If PP implement the activities of its own, it has to be discussed with the villagers a local contact of PP has to be established	The Regional Representatives of TASMA will be acting as the local contact of PP.			
If Money is given to village panchyats for developing it by villagers. PP has to discuss the money transfer mechanism with the Villagers and have a local contact office for the purpose.	The PP will directly implement the activities in respective villages.			
If activities are done by villagers and pp jointly, how activities will undertaken and how money will be channelised for the activities and what will be local contact for PP	The PP will directly implement the activities in respective villages.			
If others arrangements are preferred by PP, what will be the arrangement and how money will be chanelised to the villages and how villagers will be informed	The PP will directly implement the activities in respective villages.			

D) Monitoring arrangement

In general, PP has to develop a monitoring committee involving villagers, representative of PP and a local government official /reputed person of the area. Monitoring parameters and frequency has to be defined.

Monitoring Committee	The Monitoring Committee framed by TASMA are as follows; 1) Local Villagers 2) Regional Representative of TASMA & 3) Village Administrative Officer (VAO) – a Government Official
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Monitoring Parameters	1. Donation to old age homes a. No. of beneficiaries b. Components sponsored under the project by Old age Homes 2. Sanitation and solid waste disposal a. No. of households benefitted b. No. of employment opportunities generated c. No. of toilets installed 3. School education program a. Total no. of hours of sessions b. No. of schools covered c. No of students covered d. Activities covered under the program e. No. of resource persons employed under the program f. Amount of honorarium disbursed to the resource persons 4. Free medical camps a. No of beneficiaries/patients b. Volume of medicines distributed c. Diseases targetted under the camp (in lines with the one prevalent in the area) 5. Standards of primary schools a. Name of the School to which Donation made b. Components in which Donation is utilised by School 6. Public convenience a. No of sheds installed at bus stops b. No of drinking water stalls installed c. Sign boards installed
Monitoring Frequency	Once in 6 months

E) Making the Implementation plan public

Implementation plan including local contact, money transfer mechanism and monitoring Committee has to be finalised and discussed with the villagers. Once it is agreed it has to be submitted to Village Panchayats/ Block office/ Tehsil Office and District Collector Office.

APPENDIX 3

The procedure TASMA follows and followed to include WTGs into the Bundle in the present project activity:

