

VERIFICATION OF “GROUPED WIND POWER PROJECT IN INDIA”

Earthood Services private Limited

Project Title	Grouped Wind Power Project in India
Version	1.1
Report ID	VCS.VER.17.17

Report Title	Verification of “Grouped wind power project in India”
Client	MITCON Consultancy & Engineering Services Ltd.
Pages	34
Date of Issue	05/10/2018
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Summary:

Earthood has performed the sixth verification of VCS project “Grouped Wind Power Project in India” (VCS Ref. Number 429).

The scope of verification includes confirming the implementation of the monitoring plan of the registered VCS PD (version 2.1 for first crediting period and version 3.1 for second crediting period) and the application of the monitoring methodology Approved consolidated baseline and monitoring methodology ACM0002 (Version 10 for period 01/01/2014 to 31/03/2016 under the first crediting period and Version 17 for period 01/04/2016 to 31/03/2017 under second crediting period)

The verification is consisted of three phases: i) desk review of the project; ii) follow-up onsite visit and interviews with project stakeholders; iii) resolution of outstanding issues and the issuance of the final verification report and opinion. The overall verification, from Contract Review to Verification Report & Opinion, was conducted following Earthood internal quality procedures.

The project deals with utilisation of wind energy for the generation of clean electricity. Electricity generated from such renewable sources of energy helps in displacing the energy produced from non-renewable sources of energy such as fossil fuels. Hence, leads to emission reductions of mainly GHGs. Benefits arising from such emission reduction also lead to optimal usage of energy source.

During the verification process 07 CARs, 01 CL and 00 FARs were raised.

Earthood confirms that the monitoring system is in place and the emission reductions are calculated without material misstatements. The emission reductions from the project activity “Grouped Wind Power Project in India”, in India during the period 01/01/2014 – 31/03/2017 (including both days) amount to 122,862 tCO₂e tonnes of CO₂e.

Vintage wise representation of the emission reductions is as follows:

Period	Baseline Emissions (tCO ₂ e)	Project Emissions (tCO ₂ e)	Leakages (tCO ₂ e)	Emission Reductions (tCO ₂ e)
01/01/2014 to 31/12/2014	43,258	0	0	43,258
01/01/2015 to 31/12/2015	38,521	0	0	38,521
01/01/2016 to 31/03/2016*	5,468	0	0	5,468

01/04/2016 to 31/12/2016	30,961			30,961
01/01/2017 to 31/03/2017	4,655	0	0	4,655
Total	122,862	0	0	122,862

*The end date for the first crediting period is 31/03/2016 therefore, the emission reduction represented based on the crediting period is as follows:

Crediting Period	Baseline Emissions (tCO₂ e)	Project Emissions (tCO₂e)	Leakages (tCO₂e)	Emission Reductions (tCO₂e)
01/01/2014 to 31/03/2016 (Monitoring period falling in first crediting period)	87,246	0	0	87,246
01/04/2016 to 31/03/2017 (Monitoring period falling in first crediting period)	35,616	0	0	35,616
Total	122,862	0	0	122,862

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1 INTRODUCTION

1.1 Objective

MITCON Consultancy & Engineering Services Ltd. commissioned Earthood Services Private Limited (Earthood) to perform sixth verification of the “Grouped Wind Power Project in India” (hereafter called project) for the monitoring period 01/01/2014 to 31/03/2017 with VCS Ref number 429. The objective of this verification is a thorough and independent verification for the certified emission reductions reported for “Grouped Wind Power Project in India” and managed by MITCON Consultancy & Engineering Services Ltd.

The verification is the periodic independent review and ex post determination by Earthood Services private limited of the monitored reductions in GHG emissions that have occurred as a result of the registered VCS project activity during a defined monitoring period. Certification is the written assurance by Earthood that, during a specific period in time, a project activity achieved the emission reductions as verified.

1.2 Scope and Criteria

The scope of the verification is to establish and verify that;

- a) The project activity has been implemented and operated as per the registered PD or any approved revised PD, and that all physical features (technology, project equipment, and monitoring and metering equipment) of the project are in place;
- b) The monitoring report and other supporting documents provided are complete in accordance with the latest applicable version of the completeness checklist for requests for issuance of VERs, verifiable, and in accordance with applicable VCS requirements;
- c) The actual monitoring systems and procedures comply with the monitoring systems and procedures described in the monitoring plan, any revised approved monitoring plan, the approved methodology including applicable tool(s) and/or, where applicable, the approved standardized baseline;
- d) The data recorded and stored as per the monitoring methodology including applicable tool(s) and, where applicable, the standardized baseline

1.3 Level of Assurance

A draft verification report that is prepared by assessment team will be reviewed by an independent technical review team (one or more members) to confirm if the internal procedures established and implemented by Earthood were duly complied with and such opinion/conclusion is reached in an objective manner that complies with the applicable VCS and CDM (Clean Development Mechanism) requirements as appropriate. The technical review team is collectively required to possess the technical expertise of all the technical area/sectoral scope the project activity relates to. All team members of technical review team are independent of the validation team. The report approved by Quality Manager is endorsed by Managing Director, who is overall responsible to ensure quality, before final release. The further details of applicable procedures and responsibilities about Earthood Quality Management System (QMS) are available on its website (www.earthood.in).

1.4 Summary Description of the Project

This bundled project activity involves the use of wind energy to generate electricity with the help of 111 WTGs installed in the state of Gujarat, Karnataka, Tamil Nadu, Rajasthan and Maharashtra. Wind turbine work on the principle where the incoming wind turns the blades around the rotor thereby producing mechanical energy from the kinetic energy created by the wind. The generator then converts this mechanical energy into electrical energy. Energy generated by the wind potential leads to cleaner production of electricity and also displaces the electricity that would have been otherwise produced from the fossil fuel based sources.

The project has 72 project promoters while it is handled by MITCON Consultancy & Engineering Services Ltd. Total capacity of the project activity is 74.9 MW. This is the sixth verification of the project activity and the monitoring period for this verification is 01/01/2014 to 31/03/2017. Total emission reductions being verified during the current monitoring period is 122,862 t CO₂e.

Technological details of the project activities:

S.No.	Name of Project Promoter	Installed Capacity (MW)	Commissioning Date	Village	District
1.	Pragati Agencies	1.25	31/03/2006	Dahiwadi	Sangli
2.	Umang Textiles	0.6	21/06/2006	Nagaj	Sangli
3.	Ankur Textiles	0.6	30/03/2006	Shelkewadi	Sangli
4.	Vandana Textiles	0.6	31/03/2006	Kundlapur	Sangli
5.	Sun Irrigation System (P) Ltd.	0.6	30/03/2006	Shelkewadi	Sangli
6.	Jathar Textiles Pvt. Ltd.	0.6	31/03/2006	Kundlapur	Sangli
7.	B. C. Chadrashekhhar	0.6	19/05/2006	Kundlapur	Sangli
8.	B.C. Shivakumar	0.6	19/05/2006	Garjewadi	Sangli
9.	Aerolex Cablenet	1.25	28/03/2006	Jarandi	Sangli
10.	B. S. Channabasappa& Sons	1.25	31/03/2006	Tisangi	Sangli
11.	Air Control (India) Pvt. Ltd.	0.6	31/03/2008	Sonawade	Sangli
12.	Bengal Cardboard Industries & Printers Pvt. Ltd.	0.6	01/11/2006	Aichale	Dhule
13.	Chaphekar Engineering Pvt. Ltd.	0.6	30/12/2006	Shirsatwadi	Sangli
14.	Economic Explosives Limited	1.25	31/03/2006	Vavad	Nandurbar
15.	Jsons Foundry Private Limited	0.6	05/08/2008	Sonawade	Sangli
16.	Jsons Foundry Private Limited	0.6	19/04/2008	Sonawade	Sangli
17.	Jsons Foundry Private Limited	0.6	28/03/2007	Charan	Sangli
18.	Western Precicast Pvt Ltd	1.25	29/03/2006	Chakla	Nandurbar
19.	Metal Link Alloys Ltd.	1.25	26/05/2006	Amkhel	Dhule
20.	Naik Sea Foods Ltd.	0.6	08/11/2006	Aichale	Dhule
21.	RDS Construction Company	0.6	08/11/2006	Aichale	Dhule
22.	Silverline Investment Co. Pvt. Ltd.	0.6	01/11/2006	Aichale	Dhule
23.	Sushila Overseas,	0.6	19/05/2006	Shelkewadi	Sangli
24.	Vostok (Fareast) Securities Pvt. Ltd.	0.6	20/12/2006	Aichale	Dhule
25.	Shree Ambica Auto Sales & Service	1.25	31/07/2006	Jarandi	Sangli
26.	Unirose Textile Processors Pvt. Ltd.	0.6	18/08/2006	Tisangi	Sangli

S.No.	Name of Project Promoter	Installed Capacity (MW)	Commissioning Date	Village	District
27.	B. S. C. Textiles	0.60	29/09/2006	Tisangi	Sangli
28.	P. Vijaya Kumar	0.60	29/09/2006	Wagholi	Sangli
29.	B. C. Umapathy (smaller HUF)	0.60	29/09/2006	Nagaj	Sangli
30.	P. Mohan Lal	0.60	29/09/2006	Wagholi	Sangli
31.	S. K. Veerbhadrappa & Co	0.60	29/09/2006	Shelkewadi	Sangli
32.	SreeVeerbhadrashwara Rice & Flour Mill	0.60	29/09/2006	Garjewadi	Sangli
33.	GEM Lab. Pvt. Ltd.	1.25	11/05/2006	Amkhel	Dhule
34.	GEM Lab. Pvt. Ltd.	1.25	16/08/2006	Panhalipada	Dhule
35.	Sri Anjaneya Cotton Mills Pvt. Ltd.	1.25	23/03/2006	Amkhel	Dhule
36.	Sri Anjaneya Cotton Mills Pvt. Ltd.	1.25	29/03/2006	Amkhel	Dhule
37.	Harshita Sales Corporation	0.60	30/09/2006	Garjewadi	Sangli
38.	Ushahkal Nursing Home	0.60	26/09/2006	Nagaj	Sangli
39.	Mahabal Auto Ancillaries Pvt. Ltd	1.25	25/03/2006	Birenwadi	Sangli
40.	Mahabal Metals Pvt. Ltd	1.25	29/03/2007	Akrade	Nandurbar
41.	Mahalaxmi Infraprojects Limited	1.50	09/03/2007	Gangapur	Nandurbar
42.	Agarwal Packaging Pvt. Ltd.	1.25	29/09/2005	Kundalpur	Sangli
43.	Agarwal Packaging Pvt. Ltd.	0.6	30/12/2006	Panumbre	Sangli
44.	Choudhary Exports	1.25	08/11/2006	Jamde	Dhule
45.	Runwal Developers Pvt. Ltd.	1.25	31/03/2004	Khori	Dhule
46.	Runwal Developers Pvt. Ltd.	1.25	25/03/2005	Khori	Dhule
47.	Kulkarni Power Tools Ltd.	1.25	29/09/2006	Jamde	Dhule
48.	Jsons Founry Private Limited	0.225	28/09/2005	Veppilankulam	Tirunelveli
49.	Jsons Founry Private Limited	0.225	28/09/2005	Veppilankulam	Tirunelveli
50.	Jsons Founry Private Limited	0.225	30/09/2005	Veppilankulam	Tirunelveli
51.	Jsons Founry Private Limited	0.225	30/09/2005	Veppilankulam	Tirunelveli
52.	Jsons Founry Private Limited	0.225	21/02/2007	Veppilankulam	Tirunelveli
53.	Jsons Founry Private Limited	0.225	21/02/2007	Veppilankulam	Tirunelveli
54.	Jsons Founry Private Limited	0.225	21/02/2007	Veppilankulam	Tirunelveli
55.	Western Precicast Pvt. Ltd.	0.225	24/02/2007	Veppilankulam	Tirunelveli
56.	P.M.P. Textiles Spinning Mills Limited	0.5	09/09/2004	Anthiyur	Coimbatore
57.	RCR Eco-Power	0.225	22/03/2005	Veppilankulam	Tirunelveli
58.	RCR Eco-Power	0.225	22/03/2005	Veppilankulam	Tirunelveli
59.	RCR Eco-Power	0.35	31/03/2006	Myvadi	Tirunelveli
60.	RCR Eco-Power	0.35	15/02/2007	Thandayarkulam	Tirunelveli
61.	RCR Eco-Power	0.6	27/09/2007	Kulayaneri	Tirunelveli
62.	Shankarlal	0.225	03/02/2007	Veppilankulam	Tirunelveli
63.	B. S. C. Textiles	0.225	31/03/2006	Veppilankulam	Tirunelveli
64.	B. S. C. Textiles	0.225	31/03/2006	Veppilankulam	Tirunelveli
65.	B. S. C. Textiles	0.225	19/12/2006	Veppilankulam	Tirunelveli
66.	P. Vijaya Kumar	0.225	21/04/2006	Perungudi	Tirunelveli

S.No.	Name of Project Promoter	Installed Capacity (MW)	Commissioning Date	Village	District
67.	P. Vijaya Kumar	0.225	30/09/2005	Thandayarkulum	Tirunelveli
68.	O. B. Agarwal	0.225	03/02/2007	Veppilankulum	Tirunelveli
69.	Radha-Mohan Processors	0.225	31/03/2006	Veppilankulum	Tirunelveli
70.	Swadeshi Dyeing & Bleaching Mills Private Limited	0.225	31/03/2006	Veppilankulum	Tirunelveli
71.	B. S. Channabasappa& Sons	0.225	31/03/2006	Veppilankulum	Tirunelveli
72.	B. S. Channabasappa& Sons	0.225	31/03/2006	Veppilankulum	Tirunelveli
73.	B. S. Channabasappa& Sons	0.225	19/12/2006	Veppilankulum	Tirunelveli
74.	P. Mohan Lal	0.225	29/03/2006	Thandayarkulum	Tirunelveli
75.	P. Mohan Lal	0.225	30/09/2005	Thandayarkulum	Tirunelveli
76.	Operational Energy group India (P) Pvt Ltd (Previously: Dr. Santosh Prabhu)	0.225	30/03/2005	Veppilankulum	Tirunelveli
77.	Operational Energy group India (P) Pvt Ltd (Previously: Dr. Santosh Prabhu)	0.225	31/03/2005	Veppilankulum	Tirunelveli
78.	Mahalingashetty& Co. Ltd.	0.6	28/03/2007	Rajampatti	Dindigul
79.	Sri Venkatachalapathy Spinning Mills Pvt. Ltd.	0.75	13/03/2006	Karuvantha	Tirunelveli
80.	Sri Venkatachalapathy Spinning Mills Pvt. Ltd.	0.75	27/03/2006	Karuvantha	Tirunelveli
81.	Choudhary Exports	1.25	30/03/2006	Govindpuram	Erode
82.	Ramraj Handlooms	0.85	24/03/2005	Karungulam	Tirunelveli
83.	Ramraj Handlooms	0.75	30/12/2005	Uthupalayam	Erode
84.	Ramraj Handlooms	0.75	31/07/2006	Azhagiapandiapuram	Tirunelveli
85.	N. Sumati	0.25	29/03/2005	Sellakarachal	Coimbatore
86.	K. R. Nagarajan	0.25	29/03/2005	Sellakarachal	Coimbatore
87.	Air Control (India) Pvt. Ltd.	0.6	29/03/2008	Kuchhadi	Porbandar
88.	Badawe Engineers Pvt. Ltd.	0.6	29/03/2008	Kuchhadi	Porbandar
89.	Pragati Glass Pvt. Ltd.,	1.25	28/02/2007	Lamba	Jamnagar
90.	Siddharth Infra Tech Pvt. Ltd	0.6	29/03/2008	Kuchhadi	Porbandar
91.	Agarwal Enterprises	0.6	29/03/2008	Visawada	Porbandar
92.	Agarwal Enterprises	0.6	29/03/2008	Visawada	Porbandar
93.	Unique Sugars Ltd.	1.5	02/04/2007	Suthri	Kutch
94.	Jaychandra Agro Industries Pvt. Ltd.	0.6	02/05/2007	Sandhan	Kutch
95.	Shree Ram Hotels	0.35	30/03/2006	Pohra	Jaisalmer
96.	ChhabraSyncotex Ltd.	0.6	15/03/2008	Sadiya	Jaisalmer
97.	ChhabraSyncotex Ltd.	0.6	29/03/2007	Barabaug	Jaisalmer
98.	ChhabraSyncotex Ltd.	0.35	30/03/2006	Pohra	Jaisalmer
99.	Sona Processors (India) Ltd.	0.35	30/03/2006	Pohra	Jaisalmer
100.	Delhi Rajasthan Transport Co. Ltd.	0.35	18/10/2006	Barabaug	Jaisalmer
101.	Metro Cement and Mines Pvt. Ltd.	0.6	29/03/2007	Barabaug	Jaisalmer

S.No.	Name of Project Promoter	Installed Capacity (MW)	Commissioning Date	Village	District
102.	SarvodayaSuitings Ltd	0.35	30/09/2004	Baramsar	Jaisalmer
103.	SarvodayaSuitings Ltd	0.35	31/03/2004	Baramsar	Jaisalmer
104.	Free India Energy	1.25	14/03/2004	Soda	Jaisalmer
105.	S C Shettar and Sons	1.25	17/03/2008	Kappatgudda	Gadag
106.	Swarna Constructions	1.25	31/03/2008	Kappatgudda	Gadag
107.	Suresh Kumar Sharma (HUF)	1.25	23/09/2006	Harogiri/Kappatgudda	Gadag
108.	BEML Limited	1.25	20/12/2007	Bidnahal, Kappatgudda hills	Gadag
109.	BEML Limited	1.25	20/12/2007		Gadag
110.	BEML Limited	1.25	20/12/2007		Gadag
111.	BEML Limited	1.25	20/12/2007		Gadag
	Total	74.9			

1.5 Method and Criteria

The overall verification, from Contract Review to Verification Report & Opinion, was conducted using Earthood internal procedures.

The Project was verified against the latest requirements and guidance set out in VCS and CDM standards.

No sampling approach has been applied by the verification team as all the monthly reported figures in the MR/02/ and the ER sheet/03/ were checked from the actual records.

1.6 Document Review

The verification is performed primarily as a document review of the documents submitted at various stages of assessments. The review is performed by assessment team using dedicated protocols. The assessment team cross checks the information provided in the documents (PDD, MR, validation report/1,2,17/) and information from sources other than those used, if available, and also conducts independent background investigations. Earthood conducted a desk review as under;

- A review of the data and information presented to verify their completeness.
- A review of the monitoring plan, the monitoring methodology including applicable tool(s) and, where applicable, the applied standardized baseline, paying particular attention to the frequency of measurements, the quality of metering equipment including calibration requirements, and the quality assurance and quality control procedures.
- An evaluation of data management and the quality assurance and quality control system in the context of their influence on the generation and reporting of emission reductions.

1.7 Interviews

From 25/07/2017 till 28/07/2017, Earthood performed an on-site visit and interviews with project stakeholders to confirm selected information and to resolve issues identified in the document

review. During the on-site visit, MITCON Consultancy & Engineering Services Ltd. Representatives of were interviewed.

S.No.	Interviews			Date	Team Member
	Last Name	First Name	Affiliation		
1.	Zade	Deepak	Manager	25/07/2017-28/07/2017	Shreya Garg
2.	Garg	Rohit	Manager	25/07/2017-28/07/2017	Shreya Garg
3.	Jadhav	Suhas	Engineer	25/07/2017-28/07/2017	Shreya Garg
4.	Patil	Chanadrkant	Engineer	25/07/2017-28/07/2017	Shreya Garg
5.	Joshi	Vishal	Engineer	25/07/2017-28/07/2017	Shreya Garg
6.	Rajmare	Vivek	Manager	25/07/2017-28/07/2017	Shreya Garg
7.	Ladukar	Anant	Chief consultant	25/07/2017-28/07/2017	Shreya Garg

1.8 Site Inspections

A site visit was undertaken by Earthood from 25/07/2017 till 28/07/2017 to carry out following;

- An assessment of the implementation and operation of the registered project activity as per the registered PD/01/ or any approved revised PD.
- A review of information flows for generating, aggregating and reporting the monitoring parameters.
- Interviews with relevant personnel to determine whether the operational and data collection procedures are implemented in accordance with the monitoring plan in the PD.
- A cross check between information provided in the monitoring report and data from other sources such as plant logbooks, inventories, purchase records or similar data sources.
- A check of the monitoring equipment including calibration performance and observations of monitoring practices against the requirements of the PD, the applied methodology including applicable tool(s), and, where applicable, the applied standardized baseline.
- A review of calculations and assumptions made in determining the GHG data and emission reductions.

- g. An identification of quality control and quality assurance procedures in place to prevent or identify and correct any errors or omissions in the reported monitoring parameters.

1.9 Resolution of Findings

The objective of this step is to identify, discuss and conclude on the issues related to the monitoring, implementation and operations of the registered project activity that could impair the capacity of the registered project activity to achieve emission reductions or influence the monitoring and reporting of emission reductions. This is done based on the desk review and onsite assessment. The verification team prepares and/or updates a verification protocol (internal document) that records the conformities and nonconformities, which may be of following types;

CAR (Corrective Action Request) is raised if one of the following occurs:

- a) Non-compliance with the monitoring plan, the methodology or the standardized baseline are found in monitoring and reporting and has not been sufficiently documented by the project participants, or if the evidence provided to prove conformity is insufficient
- b) Modifications to the implementation, operation and monitoring of the registered project activity has not been sufficiently documented by the project participants
- c) Mistakes have been made in applying assumptions, data or calculations of emission reductions that will impact the quantity of emission reductions
- d) Change to the key sustainable development indicators
- e) Issues identified in a FAR during validation to be verified during verification or previous verification(s) have not been resolved by the project participants.

Clarification request (CL) is raised if information is insufficient or not clear enough to determine whether the applicable VCS requirements have been met. All CARs and CLs raised by the Earthhood during verification shall be resolved prior to submitting a request for issuance.

FAR (Forward Action Request) is raised during verification if the monitoring and reporting require attention and/or adjustment for the next verification period.

A total of 07 CAR and 01 CL were raised in the current verification.

All the findings that are raised and communicated to project participant during the verification are included under Appendix 2. The section also includes the response, if provided, by the project participants and an assessment by the verification team if it was closed out or otherwise

1.9.1 Forward Action Requests

Not Applicable

1.10 Eligibility for Validation Activities

Not Applicable

2 VALIDATION FINDINGS

Not Applicable

2.1 Participation under Other GHG Programs

Not Applicable

2.2 Methodology Deviations

Not Applicable

2.3 Project Description Deviations

Two deviation have been applied to the current monitoring period, as follows:

1. The change in the number of PPs: The registered documentation includes 72 PPs however, for the current monitoring period only 30 PPs have been considered a part of the bundled project activity.

The change was found acceptable to the assessment team since the emission reductions claimed in the project activity are being claimed for the PP being considered in the current monitoring period. Also, the additionality at the time for registration was justified on grounds of regulatory barriers. Therefore, the change in the project description does not impact the impacts the applicability of the methodology, additionality or the appropriateness of the baseline scenario.

2. Change in the frequency of calibration: The calibration frequency for the energy meters has been updated to 5 years.

The applied methodology (both version) do not specify the frequency for calibration therefore the calibration frequency has been updated in accordance to the National guidelines/19/. The calibration frequency as per Central Electricity Authority (CEA) of India which is a statutory organisation. The CEA advises the government on policy matters and formulates plans for the development of electricity systems. A frequency of five years for calibration had also been applied in the previous monitoring period. Therefore, the change was found acceptable to the assessment team as it was not found impacting the applicability of the methodology, additionality or the appropriateness of the baseline scenario.

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2.4 Grouped Project

Not Applicable

3 VERIFICATION FINDINGS

3.1 Project Implementation Status

This bundled project activity consists of installation of WTG's to generate wind energy. The installed capacity of the project activity is 74.9 MW consisting of 111 WTG's by 72 project promoters in the state of Gujarat, Karnataka, Tamil Nadu, Rajasthan and Maharashtra which was verified on site/09/ and through commissioning certificates/04/.

The installation and specification of WTGs has been checked with commissioning certificates/04/ and on-site assessments/09/. There was no major breakdown or shut downs during the monitoring period which might affect the applicability of methodology or might cause material errors in emission reductions.

Of the total aggregated capacity of 74.9 MW the project comprises of wind turbines by various wind technology suppliers which includes: NEPC, Pioneer Wincon, Suzlon Ltd., NEG Micon, Gamesa Eolica. The make and capacity of the individual wind turbine was confirmed from the commissioning certificates/4/. Part of the bundled project activity, 68.875 MW is connected to the grid and remaining 6.025 MW contributes to captive generation. The individual amount of electricity was verified from the statements issued by the respective state electricity boards.

Assessment team concludes the following:

- a) The implementation status of project activity was found to be in compliance with registered PD
- b) DOE has conducted the on-site visit to confirm the implementation status of the project.
- c) The commissioning date of the project activity was found to be accurately and consistently recorded.
- d) The actual operation of project activity was found to be in compliance with the flow diagram provided in registered PD.
- e) There was decrease in emission reduction from estimates made in registered PD.

The project activity contributes to the sustainable development by utilising wind energy for generating electricity which otherwise would have been generated through fossil fuels. Thereby reduction in usage of non-renewable sources used to generate energy.

Further the GHG emission reductions generated by the project activity has not been included by any other an emissions trading program or any other mechanism that includes GHG allowance trading. Also, the project has not received any other form of environmental credit and has not been participated/rejected under any other GHG programs.

Sustainable Development- The project will contribute to the sustainable development in the following ways

1. Environmental- Since the project activity will lead to cleaner production of energy hence it will lead to displacement of fossil fuel based energy.

2. Social-Setting up of the project activity will lead to new job openings hence will help in employment of the local people around.
3. Cleaner Air-Since the project activity will lead to lesser GHG emission it will lead to better air quality.

Further the project has been implemented as described in the project description.

The total emission reductions achieved in this monitoring period i.e. from 01/01/2014 to 31/03/2017 is 122,862 t CO₂e.

3.2 Accuracy of GHG Emission Reduction and Removal Calculations

The project monitoring has been carried in accordance with the registered VCS PD/01/ and the monitoring report/02/. The monitoring plan laid in the registered PD is being followed at the site/09/. The assessment team has verified the information flow (from data generation, aggregation, to recording, calculation and reporting for these parameters including the values) in the MR/02/.

The emission reductions are purely based on the net electricity generated and exported from the machines. PP has provided all the sufficient data for current monitoring period. The values of the parameter EG_y used in deriving the GHG emission reduction could be very well correlated between the data sets and ER spreadsheet/03/ provided by PP. the verification of each monitoring parameter has been discussed later in section 4.3.

The calculation method and formulae used in calculating baseline emission is in compliance to the methodology used i.e. ACM0002 version 10 and 17 /07/. Since project activity is a wind power project, leakage emission and project emission has been considered as zero.

3.3 Quality of Evidence to Determine GHG Emission Reductions and Removals

The below tables describe how the parameter, that is to be measured according to the monitoring plan, has been verified to confirm that the actual monitoring complies with the monitoring plan, monitoring data has been thoroughly assessed and that the calibration requirements are met.

Parameter	EG _y (MWh)	
Means of verification	Criteria/Requirements	Assessment/Observation
	Measuring /Reading /Recording frequency	The parameter is continuously measured and monthly recorded.
	Is measuring and reporting frequency in accordance with the monitoring plan and monitoring methodology? (Yes / No)	Yes. The reporting frequency is in line with the monitoring plan as outlined in the registered PD/01/ and monitoring methodology/07/.
	Monitoring equipment	Trivector meter was used.
	Is accuracy of the monitoring equipment as stated in the monitoring plan? If the monitoring plan does not specify the accuracy of the monitoring equipment, does the accuracy of the monitoring equipment comply with local/national standards, or as per the manufacturer's specification?	The accuracy of the monitoring equipment used to measure the values is: Monitoring period 01/01/2014 to 31/03/2016 = 95,818,816 kWh Monitoring period 01/04/2016 to 31/03/2017 = 36,870,209 kWh
	Is the accuracy valid for the entire measuring range or do different accuracy levels apply to different measuring ranges?	Yes. The accuracy of monitoring equipment is valid for the entire range.
	Calibration frequency /interval:	Calibration frequency of the meters is once in five years.
	Is the calibration interval in line with the monitoring plan and/or methodology? If the monitoring plan does not specify the frequency of calibration, is the selected frequency in accordance with the local/national standards, or as per the manufacturer's specifications?	Yes. The calibration frequency is in line with the deviation.
	Is the calibration of measuring equipment carried out by an	Yes

	accredited person or institution?	
	Is(are) calibration(s) valid for the whole reporting period?	Yes, the calibrations of meters are valid for the whole monitoring period.
	Is the calibration carried out for a measuring range comparable with the range for which measurements have been carried out?	Yes. The calibration is carried out appropriately.
	How were the values in the monitoring report verified?	Monthly value of the parameters for entire monitoring period is reported in the monitoring report and ER calculation sheet. The monthly values were verified from the statements issued by state utility and found to be consistent.
	If applicable, has the reported data been cross-checked with other available data?	The monthly reported values were further cross checked with the monthly invoices raised by the PP /05/ to state utility and found to be consistent.
	Does the data management ensure correct transfer of data and reporting of emission reductions and are necessary QA/QC processes in place?	Data transfer could be verified by the assessment team.
	In case project participants have temporarily not monitored the parameter, has either i) a deviation been approved by the CDM EB or ii) has the parameter been estimated as stipulated by Appendix 1 to the CDM Project Standard?	No such issues.
Findings	CAR#2 was raised and closed satisfactorily.	
Conclusion	The parameter has been monitored appropriately, in accordance with the registered monitoring plan (as per measurement methods and procedures to be applied) and applied methodology. The monitoring	

	results were recorded consistently as per the approved frequency in the monitoring plan. The verification team is able to confirm that the project is implemented as per the registered PD. The emission reduction calculation for the project activity is estimated based on the electricity supplied by the WTGs. Monthly values of electricity generated inserted in the ER sheet was verified with the credit notes/credit breakup sheets provided by the project proponent/06/. Since 100% data was verified, the team can ascertain that the values taken for emission reduction calculation are free from material errors.
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Parameters fixed ex ante:

The current monitoring period falls under both first and second crediting period therefore the ex-ante parameters refers to PD version 2.1 and 3.1. The ex-ante parameters as per version 2.1 of the PD applicable for monitoring period 01/01/2014 to 31/03/2016 are:

- 1) $EF_{grid, CM, y}$; tCO₂e/MWh: It is the combined margin emission factor of NEWNE grid and Southern grid fixed at the time of project registration the mentioned value of 0.906 and 0.927 tCO₂e/MWh is consistent with the registered PD version 2.1/01/.

The ex-ante parameters as per version 3.1 of the PD applicable for monitoring period 01/04/2016 to 31/03/2017 are:

- 1) $EF_{grid, CM, y}$; tCO₂e/MWh: It is the operating margin emission factor of Indian grid fixed at the time of renewal of crediting period. The mentioned value of 0.9660 tCO₂e/MWh is consistent with the registered PD version 3.1/01/.
- 2) $EF_{grid, OM, y}$; tCO₂e/MWh: it is build margin emission factor of Indian grid fixed at the time of renewal of crediting period, the mentioned value of 0.9853 tCO₂e/MWh is consistent with the registered PD version 3.1/01/.
- 3) $EF_{grid, BM, y}$; tCO₂e/MWh: it is the combined margin emission factor of Indian grid fixed at the time of renewal of crediting period, the mentioned value of 0.9082 tCO₂e/MWh is consistent with the registered PD version 3.1/01/.

Calibration of meters:

During the verification assessment of the project activity, accuracy of all the metering have been checked and found appropriate. The installation and working conditions of the meters were checked during the on-site inspection and were found to be satisfactory. Details of meters are provided in the table in Appendix 5 and ER calculation sheet. /3/The calibration date and applicability was verified from the respective calibration certificates/4/ provided and were found satisfactory:

GHG Calculations

The emission reduction as per the applied methodology equals the baseline emissions (project emissions and leakage emissions for such project activities is considered zero). The formula provided for the calculation of baseline emissions is:

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

Where:

BE_y : Baseline emissions in year y (tCO₂e/yr)

$EG_{PJ, y}$: Quantity of net electricity generation supplied by the project (Wind) plant/unit to the grid in year y (MWh/yr)

$EF_{grid, CM, y}$: Combined Margin (CM) Emission Factor (tCO₂e/MWh)

Thus, $BE_y = EG_{PJ, y} * EF_{grid, CM, y}$

Thus, $BE_y = 75,117 * 0.906$ (NEWNE) + $20,702 * 0.927$ (Southern)
= 87,246 t CO₂ (for MP under first crediting period)

Thus, $BE_y = 36,870.209$ MWh * 0.9660 t CO₂/MWh
= 35,616 t CO₂ (for MP under second crediting period)

Total $BE_y = 122,862$ t CO₂e.

3.4 Non-Permanence Risk Analysis

Not applicable.

4 SAFEGUARDS

4.1 No Net Harm

Not applicable

4.2 Local Stakeholder Consultation

Local stakeholder consultation has been conducted at the time of project registration hence not applicable in the current monitoring period.

5 VERIFICATION CONCLUSION

Earthood Services Private Limited (Earthood), contracted by MITCON Consultancy & Engineering Services Ltd., has performed the independent verification of the emission reductions for the VCS project activity (VCS ID- 429) “Grouped Wind Power Project in India” in India for the monitoring period 01/01/2014 to 31/03/2017 as reported in the Monitoring Report Version 02.1 dated 04/10/2018. MITCON Consultancy & Engineering Services Ltd. Is responsible for the collection of data in accordance with the monitoring plan and the reporting of GHG emissions reductions from the project activity.

It is our responsibility to express an independent verification statement on the reported GHG emission reductions from the project activity

Earthood commenced the verification on the basis of the baseline and monitoring methodology ACM0002 version 10 & 17, the monitoring plan contained in the registered VCS PD Version 2.1 & 3.1 and VCS guidelines version 3.7, Monitoring Report Version 02.1 dated 04/10/2018 as per the process described under Section 2 of this report.

Earthood’s verification approach is based on the understanding of the risks associated with reporting of GHG emission data and the controls in place to mitigate these. Earthood planned and performed the verification by obtaining evidence and other information and explanations that Earthood considered necessary to give reasonable assurance that reported GHG emission reductions are fairly stated.

In our opinion the GHG emissions reductions reported for the project activity for the period 01/01/2014 – 31/03/2017 are fairly stated in the Monitoring Report Version 02.1 dated 04/10/2018. The GHG emission reductions were calculated correctly on the basis of the approved baseline and monitoring methodology ACM0002, Version 10 & 17, and the VCS standard.

Verification period: From 01/01/2014 – 31/03/2017 (including both days)

Verified GHG emission reductions and removals in the above verification period:

Year	Baseline emissions or removals (tCO ₂ e)	Project emissions or removals (tCO ₂ e)	Leakage emissions (tCO ₂ e)	Net GHG emission reductions or removals (tCO ₂ e)
01/01/2014 to 31/12/2014	43,258	0	0	43,258
01/01/2015 to 31/12/2015	38,521	0	0	38,521
01/01/2016 to 31/03/2016*	5,468	0	0	5,468
01/04/2016 to 31/12/2016	30,961			30,961
01/01/2017 to 31/03/2017	4,655	0	0	4,655
Total	122,862	0	0	122,862

Approved by



Dr. Kaviraj Singh
Managing Director
Earthood Services Privated Limited

Date: 05-10-2018
Place: Gurgaon, Haryana

APPENDIX 1: References

S.No	Title of Document	Version	Date
1.	Registered VCS PD Renewed VCS PD	2.1 3.1	13/11/2009 08/03/2018
2.	VCS Monitoring Report	2	27/09/2018
3.	ER spreadsheet (corresponding to the final monitoring report)	-	-
4.	Certificates of Calibration for all the meters belongs to project activity	-	-
5.	Invoice issued by PP	-	-
6.	Monthly Joint Energy Meter Reading	-	-
7.	"Consolidated baseline methodology for grid-connected electricity generation from renewable sources", ACM0002,	10 & 17	-
8.	CEA Database	version 1.1	-
9.	On-site assessment, interviews of plant staff	-	25/07/2017
10.	Commissioning certificate for all the WTGs of the project activity	-	-
11.	Power Purchase Agreements	-	-
12.	VCS webpage for the project, VCS ID 429;	-	Last accessed on 24/07/2017
13.	Central Electricity Authority (Installation and Operation of Meters) Regulations Notified on 17/03/2006 No. 502/70/CEA/DP&D Amendments Notified on 26/06/2010 No. 502/6/2009/DP&D/D-I	-	-
14.	VCS Standard	Version 3.7	21/06/2017
15.	VCS Program Guide	Version 3.7	19/10/2016
16.	Letter of declaration dated from PP regarding not having created or sought any other form of environmental credit for the same period	-	-
17.	RCP Validation report	Version 1	12/03/2018
18.	CEA guidelines: http://www.cea.nic.in/reports/regulation/meter_reg.pdf		Last viewed on 01/09/2018

APPENDIX 2: Competency Statement

Competence Statement			
Name	Shreya Garg		
Country	India		
Education	M.Sc. (Climate Science & Policy), TERI University		
Experience	5 Years +		
Field	Climate Change		
Approved Roles			
Team Leader	YES		
Validator	YES		
Verifier	YES		
Methodology Expert	AMS.I.A., AMS.I.C., AMS.I.D., AMS.I.F., AMS.II.D., AMS.II.G., AMS.II.J., AMS.III.AV., ACM0002, ACM0012		
Local expert	YES (India)		
Financial Expert	NO		
Technical Reviewer	YES		
TA Expert	YES (TA 1.2, TA 3.1)		
Reviewed by	Abhishek Mahawar	Date	20/07/2017
Approved by	Ashok Gautam	Date	20/07/2017

Competence Statement	
Name	Amit Ranjan Mandal
Country	India
Education	Master of Science (Energy Management)
Experience	9.5 yrs
Field	Environmental, Energy, CDM
Approved Roles	
Team Leader	YES
Validator	YES
Verifier	YES
Methodology Expert	ACM0002, AMS.I.D
Local expert	YES (India)
Financial Expert	YES

Technical Reviewer	YES		
TA Expert	YES (TA 1.2, TA 3.1)		
Reviewed by	Abhishek Mahawar	Date	01/03/2018
Approved by	Ashok Kumar Gautam	Date	01/03/2018

APPENDIX 3: Abbreviations

BEF	Baseline Emission Factor
BM	Build Margin
CAR	Corrective Action Request
CEA	Central Electricity Authority
CERC	Central Electricity Regulatory Commission
CL	Clarification Request
CMS	Central Monitoring System
CMP	Conference of Parties Serving as Meeting of Parties
CO ₂	Carbon dioxide
EB	Executive Board
FAR	Forward Action Request
GHG	Green House Gas
ISO	International Standards Organization
JMR	Joint Meter Reading
kW	Kilowatt
kWh	Kilowatt hour
MR	Monitoring Report
MW	Megawatt
MWh	Megawatt-hour
NEWNE	Northern Eastern Western Northern-Eastern
PD	Project Description
PP	Project Proponent
PPA	Power Purchase Agreement
QA/QC	Quality Assurance and Quality Control
WTG	Wind Turbine Generator
VCS	Voluntary Carbon Standard
VCSA	Voluntary Carbon Standard Association
VCS PD	VCS Project Description
VCUs	Voluntary Carbon Units

APPENDIX 4: VERIFICATION FINDINGS

CL ID	01	Section no.		Date : 31/07/2017
Description of CL				
PP is requested to provide the following documents:				
1. supportive for electricity generated 2. invoices 3. calibration certificate				
Project participant response				Date : 13/09/2018
<i>Submitted to DOE on 13/09/2018</i>				
Documentation provided by project participant				
DOE assessment				Date: 26/09/2018
The documents submitted by the PP, confirmed the information presented in the MR and ER sheet. Therefore the finding is closed.				

Table 1. CAR from this verification

CAR ID	02	Section no.		Date : 31/07/2017
Description of CAR				
In section 1.3 of the MR, the following details inconsistencies are observed :				
1. Details about Swadeshi Dyeing & Bleaching mills private limited, B.S Channabasappa & Sons, P. Mohan Lala, Dr. Santosh Prabhu, Choudhary Exports and Air Control (India) Pvt. Ltd are missing in the section 1.3 of the MR 2. Name of the PP "Operational Energy group India (P) Pvt Ltd " on Pg 13 of the MR is inconsistent with PDD 3. Information of "M/s Balamurugan Chemicals" is inconsistent with PDD.				
Project participant response				Date : 13/09/2018
1. Details about Swadeshi Dyeing & Bleaching mills private limited has been updated B.S Channabasappa & Sons, P. Mohan Lal, Choudhary Exports and Air Control (India) Pvt. Ltd, already mention in section 1.3 of MR Operational Energy group India (P) Pvt Ltd (Previously: Dr. Santosh Prabhu) 2. Name of the PP "Operational Energy group India (P) Pvt Ltd " has been made consistent with PDD 3. Information of "M/s Balamurugan Chemicals" has been made consistent with PDD.				
Documentation provided by project participant				
<i>Revised Monitoring Report version 2 dated 13/09/2018</i>				
DOE assessment				Date: 26/09/2018
The information in the revised MR is consistent, therefore the finding is closed.				

CAR ID	03	Section no.		Date : 31/07/2017
Description of CAR				
In the section 1.6 of the MR, the duration of third and fourth monitoring period for the project is found to be inconsistent.				
Project participant response				Date : 13/09/2018
In the section 1.6 of the MR, the duration of third and fourth monitoring period for the project has been made consistent.				
Documentation provided by project participant				
<i>Revised Monitoring Report version 2 dated 13/09/2018</i>				
DOE assessment				Date: 26/09/2018

The revised MR includes consistent information, the finding is therefore closed.

CAR ID	04	Section no.		Date : 31/07/2017
Description of CAR				
The following information is found to be inconsistent in the section 1.7 of the MR				
1. WTG Unique number given on page no 21 of the MR for Sri Venkatachalapathy Spinning Mills Pvt. Ltd. Is found to be inconsistent. 2. Information about the PP Ramraj Handlooms (serial no 76) is found to be inconsistent. 3. Information about the PP Agarwal Enterprises (Serial no 84) is found to be inconsistent. 4. Information about the Unique Sugars Ltd. (Serial no 85) is found to be inconsistent. 5. Information about the Jaychandra Agro Industries Pvt. Ltd. (Serial no 86) is found to be inconsistent.				
Project participant response				Date : 13/09/2018
1. WTG Unique number given on page no 21 of the MR for Sri Venkatachalapathy Spinning Mills Pvt. Ltd. has been made consistent. 2. Information about the PP Ramraj Handlooms (serial no 76) has been made consistent. 3. Information about the PP Agarwal Enterprises (Serial no 84) has been made consistent. 4. Information about the Unique Sugars Ltd. (Serial no 85) has been made consistent. 5. Information about the Jaychandra Agro Industries Pvt. Ltd. (Serial no 86) has been made consistent.				
Documentation provided by project participant				
<i>Revised Monitoring Report version 2 dated 13/09/2018</i>				
DOE assessment				Date: 26/09/2018
The revised MR includes consistent information, the finding is therefore closed.				

CAR ID	05	Section no.		Date : 31/07/2017
Description of CAR				
The following inconsistencies were found in the excel sheet provided				
1. Cell 471 in the sheet Tamil Nadu is inconsistent with PDD 2. Cell E329, E351 in the sheet Maharashtra has incorrect summation. 3. Cell B818 in the sheet Maharashtra has inconsistent commissioning date.				
Project participant response				Date : 13/09/2018
1. Cell 471 in the sheet Tamil Nadu has been made consistent with PDD 2. Cell E329, E351 in the sheet Maharashtra has been corrected. 3. Cell B818 in the sheet Maharashtra has been made consistent commissioning date.				
Documentation provided by project participant				
<i>Revised ER Sheet</i>				
DOE assessment				Date: 26/09/2018
The revised ER sheet includes consistent information, the finding is therefore closed.				

CAR ID	06	Section no.		Date : 31/07/2017
Description of CAR				
PP is requested to include the calibration details and accuracy class of equipment in the monitoring report.				
Project participant response				Date : 13/09/2018
<i>PP refers ER sheet reference in revised monitoring report as number of meters involved in project and difficult to present in monitoring report.</i>				
Documentation provided by project participant				
<i>Calibration Certificate</i>				
DOE assessment				Date: 26/09/2018
PP is requested to justify the application of the error factor in case of delayed calibration inline to para 369 of VVS for PA. Open				
Project participant response				Date : 27/09/2018

<i>PP has updated the ER sheet and taken error factor as per VVS para 369 of EB 93 annex 5.</i>	
Documentation provided by project participant	
<i>Revised ER and MR</i>	
DOE assessment	Date: 28/09/2018
The revised documentation was found acceptable. Closed	

CAR ID	07	Section no.		Date : 31/07/2017
Description of CAR				
The details of the PP pertaining to the ownership of WTGs with unique Id 2149,1874, 1873 and 2117 were found inconsistent within the monitoring report provided. Kindly clarify.				
Project participant response				Date : 13/09/2018
<i>Updated the monitoring report</i>				
Documentation provided by project participant				
DOE assessment				Date: 26/09/2018
The revised MR includes consistent information, the finding is therefore closed.				

CAR ID	08	Section no.		Date : 31/07/2017
Description of CAR				
Monitoring period mentioned in the MR (01/01/2014 to 31/03/2017) is inconsistent with the crediting period (01/04/2006 to 31/03/2016) of the project activity. Please clarify.				
Project participant response				Date : 13/09/2018
Monitoring period mentioned in the MR (01/01/2014 to 31/03/2017) which includes 2 crediting period. Second crediting period approved by the registry and monitoring report modified accordingly.				
Documentation provided by project participant				
<i>Revised Monitoring Report version 2 dated 13/09/2018</i>				
DOE assessment				Date: 26/09/2018
The information on the renewed crediting period could be verified from the validation report issued by the DOE. The argument was therefore accepted.				

APPENDIX 5 CALIBRATION DETAILS

Sr. No.	Project Promoter	Main meter No.	Check Meter No.	Accuracy class	Calibration						
					2011	2012	2013	2014	2015	2016	2017
1	Pragati Agencies	4738049	4738050	0.2	13/06/2011	NO	NO				
2	Umang Textiles	14796419	14796430	0.2	13/06/2011	18/12/2012	NO				
3	Ankur Textiles			0.2	13/06/2011	18/12/2012	NO				
4	Vandana Textiles			0.2	13/06/2011	18/12/2012	NO				
5	Sun Irrigation System (P) Ltd.			0.2	13/06/2011	18/12/2012	NO				
6	Jathar Textiles Pvt. Ltd.			0.2	13/06/2011	18/12/2012	NO				
7	B. C. Chadrashekhhar	4738049	4738050	0.2	13/06/2011	NO	NO				
8	B.C. Shivakumar	4738049	4738050	0.2	13/06/2011	NO	NO				
9	Aerolex Cablenet	4738051	4738047	0.2	13/06/2011	NO	26/06/2013				
10	B. S. Channabasappa & Sons	4738049	4738050	0.2	13/06/2011	NO	NO				
11	Air Control (India) Pvt. Ltd.	4939178	4939179	0.2	NO	NO	NO				
12	Bengal Cardboard Industries & Printers Pvt. Ltd.	4725778	4725803	0.2	17/09/2011	25/09/2012	29/06/2013	05/06/2014	03/07/2015		09/03/2017

13	Chaphekar Engineering Pvt. Ltd.	13813603	13813604	0.2	20/06/2011	08/10/2012	22/08/2013				
14	Economic Explosives Limited	4860905	4890568	0.2	17/09/2011	05/10/2012	30/07/2013	17/06/2014			
15	Jsons Foundry Private Limited	4939178	4939179	0.2	Valid upto 24/03/2014						
16				0.2							
17				0.2	20/06/2011	08/10/2012	22/08/2013				
18	Western Precicast Pvt Ltd	4961766	4890561	0.2	17/09/2011	04/10/2012	06/08/2013	17/06/2014			
19	Metal Link Alloys Ltd.	4725793	4725788	0.2	17/09/2011	04/10/2012	12/08/2013	07/06/2014			
20	Naik Sea Foods Ltd.	4725778	4725803	0.2	17/09/2011	25/09/2012	29/06/2013	05/06/2014	03/07/2015		09/03/2017
21	RDS Construction Company	4725778	4725803	0.2	17/09/2011	25/09/2012	29/06/2013	05/06/2014	03/07/2015		09/03/2017
22	Silverline Investment Co. Pvt. Ltd.	4725778	4725803	0.2	17/09/2011	25/09/2012	29/06/2013	05/06/2014	03/07/2015		09/03/2017
23	Sushila Overseas,	14796419	14796420	0.2	13/06/2011	18/12/2012	NO				
24	Vostok (Fareast) Securities Pvt. Ltd.	4725778	4725803	0.2	17/09/2011	25/09/2012	29/06/2013	05/06/2014	03/07/2015		09/03/2017
25	Shree Ambica Auto Sales & Service	4738049	4738050	0.2	13/06/2011	NO	NO				
26	Unirose Textile Processors Pvt. Ltd.	14796419	14796420	0.2	13/06/2011	18/12/2012	NO				
27	B. S. C. Textiles			0.2	13/06/2011	18/12/2012	NO				
28	P. Vijaya Kumar			0.2	13/06/2011	18/12/2012	NO				

					/2011	/2012						
29	B. C. Umapathy (smaller HUF)			0.2	13/06 /2011	18/12 /2012	NO					
30	P. Mohan Lal			0.2	13/06 /2011	18/12 /2012	NO					
31	S. K. Veerbhadrappa & Co			0.2	13/06 /2011	18/12 /2012	NO					
32	Sree Veerbhadrashwara Rice & Flour Mill			0.2	13/06 /2011	18/12 /2012	NO					
33	GEM Lab. Pvt. Ltd.	4725793	4725788	0.2	17/09 /2011	04/10 /2012	12/08 /2013	07/06 /2014				
34		4890562	4863441	0.2	17/09 /2011	25/09 /2012	28/06 /2013	05/06 /2014	16/07 /2015	13/09/ 2016		
35	Sri Anjaneya Cotton Mills Pvt. Ltd.	4725793	4725788	0.2	17/09 /2011	04/10 /2012	12/08 /2013	07/06 /2014				
36												
37	Harshita Sales Corporation	1479641 9	1479642 0	0.2	13/06 /2011	18/12 /2012	NO					
38	Ushahkal Nursing Home	1479641 9	1479642 0	0.2	13/06 /2011	18/12 /2012	NO	11/07 /2014				
39	Mahabal Auto Ancillaries Pvt. Ltd	4738052	4738053	0.2	13/06 /2011	14/12 /2012	NO					
40	Mahabal Metals Pvt. Ltd	4860905	4890568	0.2	17/09 /2011	05/10 /2012	30/07 /2013	17/06 /2014				
41	Mahalaxmi Infraprojects Limited	4738079	4738067	0.2	17/09 /2011	25/09 /2012	29/06 /2013	05/06 /2014	16/07 /2015	28/09/ 2016		
42	Agarwal Packaging Pvt. Ltd.	4725819	4725818	0.2	NO	05/07 /2012	NO					
43		1381360 3	1381360 4	0.2	20/06 /2011	08/10 /2012	22/08 /2013					

44	Choudhary Exports	4725800	4725804	0.2	17/09 /2011	25/09 /2012	29/06 /2013	05/06 /2014	03/07 /2015		09/03 /2017
45	Runwal Developers Pvt. Ltd.	4890619	-	0.2	26/09 /2011	NO	23/05 /2013				
46		4890557	4738078	0.2	17/09 /2011	04/10 /2012	28/06 /2013	06/06 /2014	16/07 /2015	28/09/ 2016	
47	Kulkarni Power Tools Ltd.	4725778	4725803	0.2	17/09 /2011	25/09 /2012	29/06 /2013	05/06 /2014	03/07 /2015		09/03 /2017
48	P.M.P. Textiles Spinning Mills Limited	2369490	-	0.2	NO	NO	NO				
49	RCR Eco-Power	4691173	-	0.5	NO	NO	NO				
50				0.5							
51			-	0.5	NO	NO	NO				
52		4863679	-	0.5	NO	NO	NO				
53		4889996	-	0.5	NO	NO	NO				
54	S.K.Parikh (Shankarlal)	4865454	-	0.5	NO	NO	NO				
55	B. S. C. Textiles	4804657	-	0.5	NO	NO	NO				
56		4804511	-	0.5	NO	NO	NO				
57		4863797	-	0.5	NO	NO	NO				
58	P. Vijaya Kumar	4804768	-	0.5	NO	NO	NO				
59		4721812	-	0.5	NO	NO	NO				
60	O. B. Agarwal	4865447	-	0.5	NO	NO	NO				
61	Radha-Mohan Processors	4804510	-	0.5	NO	NO	NO				
62	Swadeshi Dyeing & Bleaching Mills Private Limited	4804507	-	0.5	NO	NO	NO				

63	B. S. Channabasappa & Sons	4804611	-	0.5	NO	NO	NO				
64		4804616	-	0.5	NO	NO	NO				
65		8040602	-	0.5	NO	NO	NO				
66	P. Mohan Lal	4726644	-	0.5	NO	NO	NO				
67		4721936	-	0.5	NO	NO	NO				
68	Operational Energy group India (P) Pvt Ltd	2110855	-	0.5	30/12 /2011	NO	NO			Valid upto 30/12/ 2016	
69											
70	Mahalingashetty & Co. Ltd.	4881023	-	0.5	06/12 /2011	03/12 /2012	02/12 /2013				
71	Sri Venkatachalapathy Spinning Mills Pvt. Ltd.	TNBO39 37	-	0.5	09/12 /2010	NO	NO				
72		4955010	-	0.5	09/12 /2010	NO	NO				
73	Choudhary Exports`	4726626	-	0.5	NO	22/02 /2012	NO				Valid upto 22/02 /2017
74	Ramraj Handlooms	4863795	-	0.5	NO	31/03 /2012	NO				
75		4954285	-	0.5	NO	02/04 /2012	NO				
76		TNU0485 2	-	0.5	NO	10/03 /2012	NO				
77	N. Sumati	4889952	-	0.2	NO	27/01 /2012	NO				
78	K. R. Nagarajan	4691183	-	0.5	NO	NO	NO				
79	Air Control (India) Pvt. Ltd.	GJB0110 4	-	0.2	NO	NO	NO	Valid upto 14/06 /2014			

80	Badawe Engineers Pvt. Ltd.	GJB01099	-	0.2	08/07/2011	21/07/2012	NO				
81	Pragati Glass Pvt. Ltd.,	GJU03922	-	0.2	03/07/2011	28/07/2012	NO				
82	Siddharth Infra Tech Pvt. Ltd	GJB01101	-	0.2	08/07/2011	21/07/2012	NO				
83	Agarwal Enterprises	GJB 01392	-	0.2	11/07/2011	19/07/2012	NO			30/11/2016	
84		GJB 01449	-	0.2	11/07/2011	19/07/2012	NO			30/11/2016	
85	Unique Sugars Ltd.	GJB 01538	-	0.2	06/06/2011		NO			16/07/2016	
86	Jaychandra Agro Industries Pvt. Ltd.	GJU 04509	-	0.2	19/02/2011		NO			16/07/2016	
87	Shree Ram Hotels	RJB 001114	RJB 00101	0.2	07/03/2011	13/03/2012	NO				
88	Chhabra Syncotex Ltd.	RJU 02406	RJU 02405	0.2	NO		NO				
89		RJU 02185	RJB 00254	0.2	07/03/2011	12/03/2012	NO				
90		RJB 001114	RJB 00101	0.2	07/03/2011	13/03/2012	NO				
91	Sona Processors (India) Ltd.	RJB 001114	RJB 00101	0.2	07/03/2011	13/03/2012	NO				
92	Delhi Rajasthan Transport Co. Ltd.	RJB 01150	RJB 01149	0.2	NO	NO	NO				
93	Metro Cement and Mines Pvt. Ltd.	RJU 02185	RJB 00254	0.2	07/03/2011	12/03/2012					Valid upto 12/03/2017
94	Sarvodaya Suitings Ltd	RJB 001114	RJB 00101	0.2	07/03/2011	13/03/2012	NO				
95							NO				

96	Free India Energy	RJB00316	RJB00316	0.2	NO	NO	NO				
97	S C Shettar and Sons	7041083	7041084	0.2	30/08/2011	02/06/2012	NO	26/03/2014			
98	Swarna Constructions	7041085	7041086	0.2	30/08/2011	02/06/2012	NO	26/03/2014			
99	Suresh Kumar Sharma (HUF)	6605175	6605176	0.2	16/06/2011	02/06/2012	NO	25/03/2014			
100	BEML Limited	7041078	7041079	0.2	30/08/2011	16/06/2012	NO	26/03/2014	18/03/2015		
101							NO				
102							NO				
103							NO				