

INTERNAL VALIDATION FORM: GS VER MICRO-SCALE PROJECTS

Title: **Arakalagudu Biodigester Project II**
GS ID: GS817
Submitted by: Action Carbone
Submitted on: July 15, 2010 (Date of Internal Validation fee payment)
Contact: Nitin Pagare (nitin@actioncarbone.org)

Summary:

SKG Sangha, a non-governmental organization, based in Karnataka state, India, has initiated biogas programme. The project acquired the financial aid from Good Planet foundation, a French non-profit organization, based in Paris. The project would provide the biogas and the vermicomposting units to 1000 families in the villages of Arakalagudu Taluk, Hassan District, Karnataka state. The same district has one similar project registered under Gold Standard (GS 615). The same district was chosen after continuous requests of neighbouring local beneficiaries.

The project is comprised of 790 biogas fixed dome digesters of 2m³ each, installed in individual households. The project replaces the non-renewable biomass (firewood) and the kerosene burnt in mud-type inefficient stoves that were formerly used for cooking within the project area. The biodigester consists of a dome type cement and brick tank with a six-inch inlet pipe used for feeding in cow dung mixed with water. The Vermicompost unit would be fed with a mix of slurry from the biodigester and agricultural residues that will produce in average 8 tons of vermicompost every year. The families themselves will use the Vermicompost instead of chemical fertilizers and rest will be sold outside at an average nominal price of Rs. 3/- Kg, which would be a good source of income for the beneficiary families.

The project activity contributes to sustainable development through the reduction of GHG emissions and other pollutants associated with the standard practice of firewood fuelled inefficient mud stoves in the project area. The project has a fixed crediting period of 10 years.

**Internal Validation:
Arakalagudu Biodigester Project II
ID : GS817**



General comments:

The Gold Standard has identified clarification and corrective action requests as outlined in the table below. These issues must be resolved before the project may be submitted for registration as a Gold Standard Project. Please provide your responses in the table below along with the revised project documentation and any other supporting documents that may be required to resolve the issues.

Documents reviewed:

1st round review:

Project Design Document (version 1) dated 18-08-2010

Passport dated 04-06-2010.

Local Stakeholders consultation report dated 04-06-2010

Confidential_Emission_Reduction_calcs.xls

2nd round review:

PDD.Internal.ValidationV2.01112010.pdf (date of uploading 25 November 2010)

3rd round review:

PDD.Internal.ValidationV4.23.12.2010.pdf

PassportV3.Arakalaguddu23.12.2010.pdf

Confidential Report non renewability Hassan.pdf

Decision:

Rejected	<input type="checkbox"/>
Request for clarifications and /or corrective action	<input type="checkbox"/>
To be submitted for external validation	<input type="checkbox"/>
Validated	<input checked="" type="checkbox"/>

Requests for clarifications and/or corrective actions:

Sections	Clarifications and/or corrective action needed	Reasons for clarification and/or corrective action	Suggestions on how to proceed	Response by Project Proponent
A. General description of project activity				
A.1	1. PP is requested to maintain consistency in title of the project.	The title of the project is different in the Registry, PDD and Passport.		The title of the project have modified in both the project documents as per the requested clarifications.
	Request Open: The title of the project in PDD, passport and over the registry is not exactly same. Please keep the project title same in all the documents.	i.e. Registry - Arakalgudu Biodigester Project II PDD - Arakalaguddu Biodigester Project II LSC Report & passport - Arakalaguddu Biogas Project II		The title of the project has been changed and kept uniform in all the documents.
	Request Open. PP is requested to maintain the consistency in all documents. The PPD and passport have different titles.	The name of location doesn't have the same spelling.		The title of the project in the revised documents have been changed to - "Arakalagudu Biodigester Project II".
	Request closed.			
	2. PP shall provide the correct project ID of the registered project in same region i.e. GS 615.	The correct project ID is GS615.		The project ID of the registered project has been corrected to GS615 in the PDD.
Request open: PP shall also revise the ID of reference project on page 53.			The PDD has been revised as per the requested clarification.	

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	<p>Request Closed.</p> <p>3. PP shall specify the correct number of biogas plants in PDD and Passport.</p>	<p>Number of the biogas plants in the PDD is 1000 while in the passport it is 900.</p>		<p>The project was earlier planned to implement about 1000 units but this has been revised to meet the GS micro-scale scheme limit i.e. to keep the Emission Reductions below the 5000 tCO₂/yr limit. Therefore with the current calculations, we would be implementing a total of 790 biogas and vermicomposting units.</p> <p>Till date 504 units have already been constructed and the remaining units will be completed once the funding are provided.</p> <p>The total number of units installed in the project will be included in the monitoring report and the complete details of the list of beneficiaries will be provided during the verification process of the project. We have already provided a detailed list of the 504 beneficiaries in this present internal validation round.</p> <p>The PDD and the other related documents have been revised and uploaded on the GS registry.</p>
	<p>Request open: Please upload the revised passport also over the registry.</p>	<p>This is required to check the changes done in passport.</p>		<p>The total number of the units to be installed in the project activity is 790 and the revisions have been carried out in all the documents.</p> <p>The revised passport has been uploaded on the</p>

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				registry.
	Request Closed.			
	4. Please provide the copy of reports refereed in footnote 3, 4 and 6.		<p>PP shall provide the soft copy of the page referred in footnote 3 & 6 or PP can refer to available weblink and update the same in PDD.</p> <p>Report under footnote 4 is uploaded in previous project account GS 615. However, PP shall also upload the file in current project account.</p>	The scanned copies of the references that have been referred in the PDD are also provided on the registry. The report under footnotes has been uploaded on the registry.
	<p>Request Open: PP shall upload the copy of report entitled "Baseline Study on the Renewability of the biomass used in Hassan district." over registry. The above mentioned document is not available at the</p>			The report has been uploaded on the GS registry.

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	registry.			
Request Closed.				
	5. The PP shall clarify in PDD, how and when the applications were invited for interested beneficiaries to apply for biogas units.	This is required to confirm the project timeline.		This has been provided in the revised PDD. A copy of the application sent by the beneficiary has been uploaded on the GS registry. (Please refer the first page of the document on the registry - 'Agreement between the beneficiary and SKGS').
Request closed.				
	6. Please upload the following documents on the GS Registry: - Sample copy of agreement between SKGS and the beneficiary selected for project activity - Maintenance service contract (if any)	These are required to confirm the statements in the PDD that all selected beneficiaries were duly informed about the benefits and were accepted by them.		The copy of agreement between SKGS and the beneficiary selected for project activity have been uploaded on the GS registry. The agreement mentions that the beneficiary is given a proper training to assure the running and maintenance of the unit. (3 rd page of the Agreement).
Request closed.				

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A. 2	<p>1. PP shall note that all the SD indicators whether scored '+', '0' or '-' must be justified with in the justification paragraph table. Kindly provide justification paragraph for the following indicators as well –</p> <ul style="list-style-type: none"> - Human and institutional capacity - Quantitative employment and income generation - Balance of Payment and investment - Technology transfer and technological self-reliance 	The description of these four indicators is missing in the PDD.	Please maintain consistency of the information of the SD parameters provided in the Final LSC report and the PDD.	<p>The PDD has been revised as per the clarification requested. All the parameters have been included in the revised PDD with necessary justification wherever needed. Copies of all the reference used have been uploaded on the GS registry.</p> <p>The SD indicators were revised as per the guidelines given in the GS toolkit. The LSC report has been revised as well to assure consistency in all the related documents.</p>

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	<p>Request Open:</p> <p>a) Please maintain the original scoring as provided in the 'Listed' LSC report.</p> <p>b) Please keep the same scoring of the SD indicators in the PDD and the passport as in the 'Listed' LSC report. PP is requested to upload the copy of revised PDD and Passport over registry.</p>	<p>Once the project achieves the status 'Listed' over the registry the PP cannot make any changes in the LSC report and shall follow the same scoring of the SD parameters in all other documents.</p>		<p>All the scoring of the SD parameters has been kept same as per the final LSC document that was submitted to the GS. The respective documents have been revised as per the requested clarification.</p>
	<p>Request Closed.</p> <p>2. Please justify what are the 'Other pollutants' produced in the baseline, which will be reduced by the project activity.</p>	<p>PP shall refer Annex I to the GS version 2.1 Toolkit for better understanding of the indicator. The baseline indicators used in assessment of SD matrix i.e. SO_x, NO_x, particulate matters should come under Air quality and quantity.</p>	<p>Please maintain consistency of the information of the SD parameters provided in the Final LSC report and the PDD.</p>	<p>The SD indicator "Other pollutants" has been revised as per the guidelines given in the GS toolkit. The PDD and LSC report have been revised to assure consistency in the documents.</p>

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	<p>Request Open: Please revise the SD scoring as per the 'Listed' LSC report in the PDD and the passport.</p>	<p>Once the project achieves the status 'Listed' over the registry the PP cannot make any changes in the LSC report and shall follow the same scoring of the SD parameters in all other documents.</p>		<p>All the scoring of the SD parameters have been kept same as per the final LSC document that was submitted to the GS. The respective documents have been revised as per the requested clarification.</p>
	<p>Request Closed.</p>			
	<p>3. The SD indicator "Quality of employment" is different from standard of living. Employment quality refers to the qualitative value of employment, such as whether the jobs resulting from the project activity are highly or poorly qualified, permanent or temporary as compared to the business as usual scenario.</p>	<p>Please refer Annex I to the GS version 2.1 Toolkit for better understanding of the indicator.</p>	<p>The description in this section will be more appropriate under the SD indicator i.e. 'Livelihood of poor'</p>	<p>The SD indicators were revised as per the guidelines given in the GS toolkit.</p> <p>The PDD and LSC report have been revised to assure consistency in the documents.</p>

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	<p>Request Open: Please revise the SD scoring as per the 'Listed' LSC report in the PDD and the passport.</p>	<p>Once the project achieves the status 'Listed' over the registry the PP cannot make any changes in the LSC report and shall follow the same scoring of the SD parameters in all other documents.</p>		<p>All the scoring of the SD parameters have been kept same as per the final LSC document that was submitted to the GS. The respective documents have been revised as per the requested clarification.</p>
	<p>Request Open: PP is requested to revise the explanation provided for the SD indicator "Quality of employment".</p>	<p>The explanation in the SD indicator 'Quality of employment' states that the local jobs will be created.</p>	<p>Please refer to the GS version 2.1 toolkit. According to the toolkit, Quality of employment refers to changes compared to the baseline in:</p> <ul style="list-style-type: none"> - Labour conditions, such as job-related health and safety <p>Qualitative value of employment, such as whether the jobs resulting from the project activity are highly or poorly qualified, temporary or permanent.</p>	<p>The PDD and the passport have been revised as per the requested clarification.</p>

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	Request Closed.			
	4. The scoring of the SD indicator “Biodiversity” is not in line with the explanation provided.	The explanation given in the PDD shows that the indicator must be scored positive.	Please maintain consistency of the information of the SD parameters provided in the Final LSC report and the PDD.	The SD indicators were revised as per the guidelines given in the GS toolkit. The PDD and LSC report have been revised to assure consistency in the documents.
	Request Open: Please revise the SD scoring as per the ‘Listed’ LSC report in the PDD and the passport.	Once the project achieves the status ‘Listed’ over the registry the PP cannot make any changes in the LSC report and shall follow the same scoring of the SD parameters in all other documents.		All the scoring of the SD parameters has been kept same as per the final LSC document that was submitted to the GS. The respective documents have been revised as per the requested clarification.
	Request Closed.			
	5. The PP shall explain why it has scored the indicator “Quantitative employment and income generation” as neutral.		Please maintain consistency of the information of the SD parameters provided in the Final LSC report and the PDD.	The SD indicator has been scored ‘+’ and revised as per the guidelines given in the GS toolkit. The PDD and LSC report have been revised to assure consistency in the documents.

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	<p>Request Open: Please revise the SD scoring as per the 'Listed' LSC report in the PDD and the passport.</p>	<p>Once the project achieves the status 'Listed' over the registry the PP cannot make any changes in the LSC report and shall follow the same scoring of the SD parameters in all other documents.</p>		<p>All the scoring of the SD parameters has been kept same as per the final LSC document that was submitted to the GS. The respective documents have been revised as per the requested clarification.</p>
	Request Closed.			
	<p>6. The PP shall provide the page no for the reference in Footnote 10 and upload the report or relevant pages of the report for Footnote 12.</p>			<p>The references 10 & 12 in the revised PDD have been changed to 7 &9 respectively.</p> <p>The page number of reference 7 – 3. This reference has been provided to support the statement that the beneficiaries in the project area have sufficient access to water that can be utilised for the biodigester apart from using the kitchen waste water and for reference number 9 – pg no -9.</p> <p>The reference reports have been uploaded on the registry.</p>
	Request Closed.			

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	7. The web-link under footnote 15 and 16 is not working. PP shall provide appropriate references.			<p>The references 15 & 16 in the revised PDD have been changed to 11 & 12 respectively.</p> <p>The page number of reference 11 – 1. and for reference number 12 – pg no -8.</p> <p>The reference reports have been uploaded on the registry.</p>
Request closed.				
A. 4	1. PP shall confirm how the unique project identification requirement of the applied methodology is met.	The individual units should be identifiable so that there is no double counting in case of another similar project activity being implemented in the same area.		<p>Apart from assigning each unit a number, and to assure that there is no double counting of units, a separate database for the project is maintained by the SKGS team with detailed address, photos, unit number, and the village name for each of the beneficiaries in the project activity. A details list can be provided during the verification process. Few photos of the unit with the number have been attached in the annexe of this verification report.</p>
Request Closed.				
	2. The PP shall round down the emission reductions in the table in section A.4.4.1.	Emission reductions are issued in whole numbers.		The PDD has been revised as per the requested clarification.
Request Closed.				
	3. The emission reductions are calculated only for 504 bio-digester units, while there	Please provide the emission reductions for the entire 1000	PP shall calculate the emission reductions based on expected	The ER calculations have been revised with a total of 790 units to be installed.

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	are 1000 units in the project activity.	households in the project activity as per expected commissioning.	number of biogas digester.	
	<p>Request Open: Since the project start date is August 2010 the PP shall correct the ERs for the year 2010 and the last year of the crediting period.</p>	<p>The PP shall estimate the number of ERs from August till December for the year 2010. Similarly the PP shall correct the ERs for the last year of the crediting period.</p>		<p>The project start date has been revised as April 2010 instead of August 2010. To monitor the completion of each unit, each beneficiary signs a 'completion certificate' in the agreement provided by SKGS to assure that the units have been constructed and have started functioning. A copy of this certificate has been provided on the registry. Before construction of the units, SKGS allocated each beneficiary with a number depending on the location of the beneficiary. The last unit that has started functioning was on the 30th March 2010 for the 486th unit . To justify, both the copies of the 486th and the 505th units completion certificates have been uploaded on the GS registry.</p> <p>Summary of the constructed units so far: February 2010 – 328 units were functioning by end of the month. March 2010 – 177 units were functioning by end of the month.</p> <p>For the year 2010 and 2011, the Emission Reductions are calculated for 505 units that have been completed</p>

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				<p>by 30th March 2010. Since the construction and completion of the 505 units were carried out in February to March, the ER's are considered from the month April 2010. As a conservative approach the ER's are considered for the period of 9 months (April to December) for the first year i.e. 2010.</p> <p>Out of the total 790 units, the remaining 285 units will be constructed in the year 2011 depending on the fund transfer to SKG Sangha by GoodPlanet. The ER's will be taken into account once the remaining units are constructed by the end of 2011 and the respective documents will be revised and provided to the Gold Standard during the verification process. For the remaining years, 790 units are considered since they would be completely implemented and functioning.</p> <p>A database with the name of the beneficiaries and the date of completion of each unit has been provided on the GS registry.</p> <p>Scan sample copies of the completion certificates signed both by beneficiary and SKGS has also been uploaded on the GS registry for reference.</p>
	<p>Request Open: PP shall include the ERs of</p>	<p>The PP shall estimate the number of ERs from April</p>		<p>The PDD has been revised as per the request. The emission reductions for the last crediting year</p>

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	the 3 months in the last crediting year i.e. 1 st Jan. 2020 till 31 st Mar. 2020.	till December for the year 2010. Similarly the PP shall correct the ERs for the last year of the crediting period.		have been considered from 01/01/2019 till 31/03/2020. The same has been mentioned in all the revised documents.
Request closed.				
<i>B. Application of a baseline methodology</i>				
B.1	1. Please provide the version of the methodology and also include the reference to “Tool to demonstrate Additionality” and its version number.	Complete details of the methodology and the tools being applied to the project activity		The PDD has been revised as per the requested clarification. UNFCCC - “Tool to demonstrate Additionality” – Version 05.2
Request Closed.				
	2. The ERs unit mentioned on page 13 of the PDD is not consistent with other sections of the PDD.			The PDD has been revised as per the requested clarification.
	Request Open: Since the project start date is August 2010 the PP shall correct the ERs for the year 2010 and the last year of the crediting period.	The PP shall estimate the number of ERs from August till December for the year 2010. Similarly the PP shall correct the ERs for the last year of the crediting period.		The PDD has been revised as per the requested clarification.
	Request Open:	The PP shall estimate the		The PDD has been revised as per the request.

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	PP shall include the ERs of the 3 months in the last crediting year i.e. 1 st Jan. 2020 till 31 st Mar. 2020.	number of ERs from April till December for the year 2010. Similarly the PP shall correct the ERs for the last year of the crediting period.		The emission reductions for the last crediting year have been considered from 01/01/2019 till 31/03/2020. The same has been mentioned in all the revised documents.
Request closed.				
B. 2	1. PP shall upload the baseline survey report referred to in Footnote 18 on the GS registry.	This is required to confirm the statement in the PDD.		The baseline survey report has been uploaded on the GS registry.
Request Closed.				
	2. PP shall provide complete references for the IPCC default values used.			The reference values used in calculations have been provided and the required documents have been scanned and uploaded on the GS registry.
	Request Open: Please upload the required document on the registry.	The document is not available on the Registry.		The document has been uploaded on the registry.
	Request open: PP can also provide the weblink for the same.	The document is not available on the Registry.		The document has been uploaded on the registry as_ IPCC_Volume2.Energy_References
Request closed.				
	3. PP shall provide the implementation schedule of the 1000 bio-digester units in this project activity.	This is required to assess the project timeline.	A timeline should be provided, including, amongst others, the date of the investment	The project would be implementing 790 units. Till date 504 units have already been installed and the remaining will be installed as per the funds allocated to SKGS.

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	<p>Request open: Please provide the chronological timeline of the key activities of the project.</p>		<p>decision and the date of the first consideration of carbon revenues is demonstrated.</p>	<p>A total of 505 units have been completed out of the total 790 units for the project activity. The remaining 285 units will be constructed in the year 2011, depending on the transfer of funds to SKG Sangha by GoodPlanet.</p> <p>A chronological timeline cannot be provided from PP for the moment, as we have not yet defined when to transfer the funds for the remaining 285 units.</p> <p>As mentioned earlier, the PP has kept the target higher so as to remain in the 'micro-scale' option and not exceed more than 5000 tCO₂/yr. As this is a community based project it is based on the following factors as well : -</p> <ul style="list-style-type: none"> • The availability of the beneficiaries – most of the beneficiaries in the project activity are dependent on agriculture and are therefore busy during the sowing and harvesting period of the year. SKG has to plan the construction of the units accordingly so that the beneficiaries

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				<p>are free and can also witness the completion of the units.</p> <ul style="list-style-type: none"> • The availability of the material for construction - as most of the time SKG orders the material in bulk but if there is large demand of the same material from the local market, the deliveries of the materials to project area are delayed. • The immediate availability of the funds from GoodPlanet, France. <p>Also, the PP requests the Gold Standard to consider that the project is being implemented in the rural areas where most of the material has to be transported from the nearest towns/cities. Therefore a fixed timeline of the completion of the project units would be difficult for the PP to provide at this point in time but the entire database to the total number of units completed with details of the date of completion and functioning will be updated and provided during each verification period of the project activity. The Emission Reductions will be calculated with the total number of units that have been completed in the year.</p>
	<p>Request Open: PP is requested to provide the chronological history of the proposed project activity</p>	<p>GS appreciates the PP's efforts and would like to clarify that the project timeline refers more to the</p>		<p>The summary with the exact dates have been explained in a tabular form regarding the chronological history of the project activity in the present revised PDD in the section B.3. The reference documents have</p>

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	in section B. 3. of the PDD.	chronological history of the project. Therefore project timeline shall include the construction start date (of 1st biodigester), LSC meeting date, operation start date (of 1st biodigester), ERPA signing date etc. PP can mention the tentative date for future installations.		<p>been uploaded on the GS registry.</p> <ul style="list-style-type: none"> A copy of the operation date of the first biodigester has been provided on the registry marked as – Confidential_Consideration_of_Second_GS_Microscale_SKG_GoodPlanet_Mail_Exchange A copy of the contract and the email exchanges between GoodPlanet and SKGS while considering the VER revenues for this project activity has been uploaded on the GS registry as – Confidential_Agreements_448_449_450_451
Request closed.				
B. 3	1. PP shall upload the relevant documents under Footnote 22 and 25.	This is required to confirm the statements in the PDD.		
Request Closed.				
	2. Please provide document under footnote 22 i.e. – Government allocation order, dated- 02.01.08.			The scanned document has been provided in the local language and the translation of this document is also uploaded on the GS registry for further reference.
Request Closed.				
	3. Please provide copy of the purchase order or any other evidence for the cost of the biogas and vermi-composting units as given in the Annex.	This is required to verify the cost given in the table in the Annex.		A recent report by Dr. K. C. Khandelwal (Adviser (Retd), Ministry of New and Renewable Energy, Government of India, New Delhi) gives abrief information of the cost of a biodigester in India. (page 13). The report has been uploaded on the GS registry.

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	Request open: Please provide the reference / evidence of the cost given in the Annex 4 in the PDD	The MNRE report provided by the PP does not refer to the cost given in the Annex 4 of the PDD. PP shall provide the project specific references to confirm the cost mentioned in the PDD. For example purchase orders or payment receipt.		A justification from a local consultant (Sree Consultants) has been provided as a reference for the total cost of biogas units that have been constructed in the project activity. The copy of the document has been uploaded and marked as 'confidential' on the GS registry.
	Request closed.			
	4. PP shall check the footnote 37.	The web link provided does not open.		A PDF version of the references has been uploaded in the GS registry.
	Request Closed.			
	5. PP shall provide the documentary evidences to support the statement that the subsidy that was promised to SKG by the government in 2002-03 was not provided.			A scan copy of the 'letter from the Zilla Pachayat to th Government of India' requesting the release of subsidy funds of SKG sangha has been uploaded on the registry; The letter is in the local language and the necessary translation has been provided in the scanned document itself.
	Request open. Although the PP has uploaded the evidence, there is a problem in viewing the			A PDF version of the 'letter from the Zilla Pachayat to th Government of India' requesting the release of subsidy funds of SKG sangha has been uploaded as a 'Confidential document' on the GS registry.

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	document. Please upload the evidence and its translation again.			
Request closed.				
	6. PP shall clarify how this project is a first of its kind when the PP has already registered a similar project in the same region.			The PDD has been revised as per the requested clarification.
Request closed.				
	7. Other barriers: the discussion on the other barriers is similar to the justification provided under investment barrier section. Hence please remove this barrier.			'Other Barriers' option has been removed in the revised PDD.
Request closed.				
	8. Common practice analysis: PP shall revise the discussion under this section in line with the "Tool for the demonstration and assessment of Additionality".		PP shall follow the steps given in the Tool for the demonstration and assessment of Additionality to discuss the common practise analysis.	The PDD has been revised as per the requested clarification. All the references used in this part of the PDD have also been uploaded on the GS registry.

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Request closed.				
	9. Baseline survey: Please provide more information on how the baseline survey was carried out. Also, discuss how the sample of 144 households was selected for the survey.	The sampling approach for the baseline determination must be transparent to the reviewers to be able to better understand the process.	Few samples of the questionnaire used to carry out the survey can be attached as annex to the PDD or uploaded on the registry.	The details have been provided in the revised PDD.
Request closed.				
	10. Please include a discussion on how the project activity falls under the 'pre-project situation'.	Justification is required to ensure that the baseline has been established appropriately as per the GS applied methodology		Justification for the baseline option has been provided in the revised PDD.
Request closed.				
B. 5	Please provide complete details of the entities determining the Non-renewable biomass study.			The details have been provided in the revised PDD.
Request Closed.				
C. Duration of the project activity/Crediting period				
C. 1	1. PP shall upload the agreement copy between Good Planet and SKG.	This is required to check the start date of the project activity to insure a transparent and clear transfer of the ownership		The copy of agreement has been uploaded on the GS registry.

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		of the emission reductions from the users to the project proponent		
	Request Closed.			
	2. PP shall provide suitable evidence for the lifetime of 20 years for a bio-digester.			<p>Though most of the available literature estimates the lifetime of the biogas units to be 20 yrs, we have provided below the name and address of the beneficiaries who have been using the biogas units from the past 20 yrs.</p> <p>The plant constructed during 1989-90 by the team of SKGS (3 cubic meters), which are still functioning. The address and location of the units have been provided below:</p> <p>Constructed by; Mr K Kiran Kumar Rural Energy Technicians, Khadi and Village Industries commission, State Office Chennai, Government of India. (Mr Kiran is presently the vice-president of SKG Sangha).</p> <p>Beneficiaries : 1) Mr. Sriramulu Reddy, Christianpettai, Katpadi, Vellore District, Tamil Nadu, India Installed in 1990</p>

Sections	Clarifications and/or corrective action needed	Reasons for clarification and/or corrective action	Suggestions on how to proceed	Response by Project Proponent
				2) Mr. Mohan Reddy, Kunakuntlavaripally Villalge, Angallu post, kurabalakota Mandal, Chittur District, Andhra Pradesh, India, Phone, +919440312497
Request Closed.				
C. 2	1. Under C.2.2 PP shall clarify the start of the crediting period.	The PP has mentioned two dates 1 st February 2010 and August 2010.		The PDD has been revised as per the clarification requested.
	Request Open Please provide the credit period start date.	PP has mentioned <august 2010> in section C.2.2.1. PP shall mention the date in complete.		The credit period start date has been changed to April 2010. The dates of completion of all units have been provided in a separate database on the GS registry. A scan of the sample copies of the agreement to justify the date of the completion and functioning of the biogas unit, have also been uploaded on the GS registry.
Request Closed.				
Section D – Application of a monitoring methodology and plan				
D. 2	1. Under D.2.1, please also clarify the source of data, which will be used to monitor PE1 and PE2.			The PDD has been revised as per the clarification requested.
	Request open: PP shall also revise the source of information for monitoring parameter PE7 in table D.2.1.1.			The source of information for the parameter PE7 will be from monitoring surveys carried out each year and also from the field observation by the SKGS team while they visit the project area. The team visits the beneficiaries at a regular interval of time and therefore

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	PP shall also revise the source of data in table D.2.1.3 for PE1 and BE1.			<p>if any failure of biogas units are observed are taken into account and recorded in the survey database. The date of the failure will be recorded, and the carbon credits adjusted.</p> <p>The table D.2.1.3 has been revised as per the request.</p>
Request Closed.				
	<p>2. Under D.2.1.2, PP shall monitor all sustainability parameters with a non-neutral scoring. Please include the following SD indicators in the SD monitoring plan:</p> <ul style="list-style-type: none"> - Air Quality: As this can be seen as a crucial indicator to the overall positive contribution to sustainable development - Quality of Employment - Human and institutional capacity <p>The table shall also include</p>	The PP shall maintain a consistency between the parameters being monitored in the PDD and the Passport.		Both PDD and Passport have been revised as per the clarification.

Sections	Clarifications and/or corrective action needed	Reasons for clarification and/or corrective action	Suggestions on how to proceed	Response by Project Proponent
	details of estimation by survey process.			
	Request Open: Please revise the SD scoring as per the 'Listed' LSC report in the PDD and the passport and also monitoring plan accordingly.	Once the project achieves the status 'Listed' over the registry the PP cannot make any changes in the LSC report and shall follow the same scoring of the SD parameters in all other documents.		The documents have been revised as per the clarification requested.
Request Closed.				
D. 3	1. On page 38, the same table has been repeated twice. Please remove one of the tables.			The PDD has been revised as per the clarification requested.
Request Closed.				
D. 4	1. The PP shall provide more information on the SKG monitoring team. Please also elaborate on the trainings, which will be provided.			The PDD has been revised as per the clarification requested. Mr Raghava Rao and Mr Manjunath. And local volunteers.
Request closed.				

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	2. Please include a discussion on how the O&M will be carried out for the project activity to ensure proper working of the biogas plants. Also, mention which agency will be responsible for carrying out the O&M for this project activity.			The PDD has been revised as per the clarification requested.
Request closed.				
E. Estimation of GHG emission by sources				
E. 1	1. The PP shall clarify the project emission calculation given in E.1 and E.3 i.e. 130 tCO ₂ and 241 tCO ₂ respectively.			The PDD has been revised as per the clarification requested.
Request closed.				
E. 5	1. Since the project activity entails installation of biogas units in 1000 households, the emission reductions must be corrected accordingly.			The PDD has been revised as per the clarification requested.
Request closed.				
F. Environmental Impacts				
F. 1	1. The section is referring to GS version 1 validation			The PDD has been revised as per the clarification requested.

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	manual. Please refer to the GS version 2.1 toolkit for reference as this is GS version 2.1 project. Please note that the words Initial and main stakeholders consultation have been replaced by LSC and SFR respectively as per GS version 2.1			
	<p>Request Open: The section (F.1. point 2) is still referring to 'GS VER Manual for Project developers' which was part of GS version 1. Please refer to the GS ver 2.1 Toolkit.</p> <p>Request closed.</p>			The PDD has been revised as per the clarification requested.
G. Stakeholder comments				
G. 2	1. Please clarify in what context has the stakeholder no 5 raised a point that he did not like about the project.			The PDD has been revised as per the clarification requested.
	Request closed.			
Annexure				

Sections	Clarifications and/or corrective action needed	Reasons for clarification and/or corrective action	Suggestions on how to proceed	Response by Project Proponent
Annex 3	1. The PP shall include the QA/QC procedures, frequency of monitoring and the measurement procedures for all the monitoring parameters.			The PDD has been revised as per the clarification requested.
	Request Open. PP shall revise all monitoring parameters as per the changes in PDD and Passport.			The PDD has been revised as per the clarification requested.
	Request Closed.			
	2. PP shall include ID7 as per the methodology in the monitoring parameters.			
	Request Open ID7 has not been included in the revised PDD. PP shall include the same in revised PDD.			The ID7 has not been included in the monitoring parameters as it refers to the baseline option 2 and the PDD has considered the baseline option 1 to calculate the Emission reductions.
	Request Closed.			
3. For parameters ID 11, ID 13 and ID 17, please elaborate on the survey that will be used as the source of data.				The PDD has been revised as per the clarification requested.

Sections	Clarifications and/or corrective action needed	Reasons for clarification and/or corrective action	Suggestions on how to proceed	Response by Project Proponent
	<p>Request open The clarification is in not included in revised PDD in Annex 3.</p>	PP shall complete the description table for all monitoring parameters.		The PDD and passport have been revised as per the clarification requested.
	Request Closed.			
GS Passport				
	1. The description of monitoring parameters in the Passport and the PDD must be consistent.			The PDD and passport have been revised as per the clarification requested.
	<p>Request open. PP shall upload the revised passport over the registry.</p>			The PDD and passport have been revised as per the clarification requested.
	<p>Request Open: PP is requested to revise the monitoring plan for the indicator 'Quality of employment'</p>	The description provided by for the indicator 'Quantity of employment and income generation)	Please refer to the GS version 2.1 toolkit. According to the toolkit, Quality of employment refers to changes compared to the baseline in: - Labour conditions, such as job-related health and safety Qualitative value of employment, such as whether the jobs	The PDD and the passport have been revised as per the requested clarification.

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			resulting from the project activity are highly or poorly qualified, temporary or permanent.	
Request Closed.				
	2. Please include the monitoring of odour in the monitoring plan under SD indicator 'Air quality',	PP is required to monitor the parameter with respect to the baseline situation of the project activity.		The PDD and the passport have been revised as per the requested clarification.
Request Closed.				
	3. The SD matrix states that the SD indicator 'Biodiversity' will be monitored to make sure that beneficiaries are continuously using the biogas and do not switch back to firewood. Hence please include the indicator in the monitoring plan.			
Request Closed.				
	4. Please include the monitoring of income from vermicompost in the	PP is required to monitor the parameter with respect to the baseline		

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	monitoring plan of the indicator 'Livelihood of poor'.	situation of the project activity.		
	Request Closed.			
	5. Please upload the ODA declaration form on registry.			
	Request Closed.			

Forward Action Request: (FAR 1)

DOE is required to verify the SD indicator 'Biodiversity' at the time of verifications to confirm the scoring of the SD indicator is still neutral and not converting to negative.