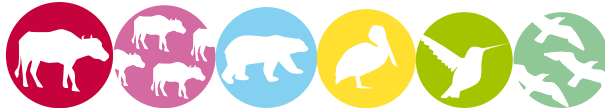


# GOLD STANDARD PASSPORT

## GOLD STANDARD PASSPORT

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#### **Annex 1 ODA declarations**

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## SECTION A. Project Title

[See Toolkit 1.6]

**Title:** 7.5 MW Poultry Litter Project by Redan Infrastructure Private limited  
**Version:** 01  
**Date:** 29/08/2012

## SECTION B. Project description

[See Toolkit 1.6]

Start Date: 01/08/2013 (placement of purchase order to the equipment supplier)

Redan Infrastructure Private Limited is setting up a 7.5 MW greenfield power project at Gangavaram village in Chittoor district of Andhra Pradesh. As a fuel for power generation, the project proposes to use poultry litter which is a waste product of the local poultry farming industry and is presently dumped in pits near the poultry farms, resulting in emissions of methane to the atmosphere. The proposed project activity will also utilize other biomass to the tune of 15% of the total fuel consumption for electricity generation. The fuels will be burnt in a travelling grate type of boiler. The steam generated from the boiler is expanded in a bleed cum condensing turbo generator for power generation. The power generated by the project activity, after catering to the minor internal consumption shall be exported to the Southern Regional Electricity Grid of India. In the absence of the project activity, the grid dominated thermal power plants would generate an equivalent quantity of power, resulting in GHG emissions as per the carbon intensity of the fuel mix constituting the grid and the poultry litter would be continued to be dumped in the anaerobic lagoons in the fields, resulting in GHG emissions as per the carbon intensity of methane.

The main purpose of the project activity is to achieve GHG emission reductions and achieve sustainable development of the host country in the following ways:

- 1) Change in AWMS system: Curb methane emissions, which are released in the current practise i.e in anaerobic lagoons. The poultry litter and other biomass will be collected and brought to the plant, dried and used as fuel in the boiler, thereby reducing the methane emissions.
- 2) Renewable energy generation system: Poultry litter and biomass act as renewable source for electricity generation. Electricity will be fed to grid, thereby reducing the dependency on fossil fuels.

The project is helping the Host Country fulfil its goals of promoting sustainable

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development. Specifically, the project satisfies the sustainable development guidelines provided by the Ministry of Environment and Forests in India. Each of the sustainable development indicators established by the Government of India have been analysed in the context of the project activity to assess the project's contribution to sustainable development. This analysis appears below.

### *Environmental well being:*

The project uses a poultry litter waste for electricity generation and therefore does not emit additional greenhouse gases; which would have been generated as the poultry litter is currently being dumped into anaerobic lagoons. This project leads to the productive use of poultry litter for power generation. This leads to the minimisation of generation of methane in to the atmosphere. Also the PP proposes to dedicate 30% of the site as a green belt.

### *Social and Economic well being:*

Specifically, the project:

- Increases employment opportunities in the area where the project is located, specifically, it is expected that jobs will be created during construction and in the area of civil works. In addition, various kinds of electro mechanical work would generate employment opportunity on a regular and permanent basis
- Optimises the use of natural resources, avoid new uncontrolled waste disposal sites
- Diversifies the sources of electricity generation
- Uses clean and efficient technologies, and conserves natural resources

### *Technological well being:*

The project showcases an innovative way to use low calorific value fuels, combining power generation from renewable resources and sustainable development in rural areas. With the majority of India's population living in rural areas and considering the desolate power supply situation in these areas, the project has an immense replication potential. The project presents technological innovations in boiler design to avoid slagging and corrosion problems caused by the fuel properties of poultry litter. The project uses a steam turbo generator with matching boiler of travelling grate type capable of firing multiple fuels.







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## SECTION C. Proof of project eligibility

### C.1. Scale of the Project

[See Toolkit 1.2.a]

Please tick where applicable:

Project Type	Large	Small
	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>

### C.2. Host Country

[See Toolkit 1.2.b]

India

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## C.3. Project Type

[See Toolkit 1.2.c and Toolkit Annex C]

*Please tick where applicable:*

Project type	Yes	No
Does your project activity classify as a Renewable Energy project?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Does your project activity classify as an End-use Energy Efficiency Improvement project?	<input type="checkbox"/>	<input type="checkbox"/>

*Please justify the eligibility of your project activity:*

This project activity consists of renewable energy generation power plant that shall use poultry litter and other biomass for generation and supply of net electrical energy to the Southern Regional Grid of India. Furthermore, the fuels to be used in the project activity: poultry litter and other biomass is a renewable biomass, as established as per point 5 of the Glossary of CDM terms (Version 05), that states “*The biomass is the non-fossil fraction of an industrial or municipal waste*”. The poultry litter and other biomass to be used by the project activity shall be sourced from the agriculture industry and is non-fossil in nature. Thus these fuels are the non-fossil fraction of the agriculture industry waste; these are established as renewable biomass fuel. In the absence of the project activity, the grid dominated thermal power plants would generate an equivalent quantity of power, resulting in GHG emissions as per the carbon intensity of the fuel mix constituting the grid. Thus the project activity under consideration shall qualify as “Renewable Energy Supply” project.

Pre Announcement	Yes	No
Was your project previously announced?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Explain your statement on pre announcement  The project activity has been announced for CDM/GS stakeholder consultation with the consideration of potential carbon credit revenues from CDM/GS mechanisms.		

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### C.4. Greenhouse gas

[See Toolkit 1.2.d]

Greenhouse Gas	
Carbon dioxide	<input checked="" type="checkbox"/>
Methane	<input checked="" type="checkbox"/>
Nitrous oxide	<input type="checkbox"/>

### C.5. Project Registration Type

[See Toolkit 1.2.f]

Project Registration Type	
Regular	<input checked="" type="checkbox"/>

Pre-feasibility assessment	Retroactive projects (T.2.5.1)	Preliminary evaluation (eg: Large Hydro or palm oil-related project) (T.2.5.2)	Rejected by UNFCCC (T2.5.3)
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

If Retroactive, please indicate Start Date of Construction  
dd/mm/yyyy: \_\_\_\_\_

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## SECTION D. Unique project identification

### D.1. GPS-coordinates of project location

[See Toolkit 1.6]

	Coordinates
Latitude	13°13'56 N
Longitude	78°43'24 E

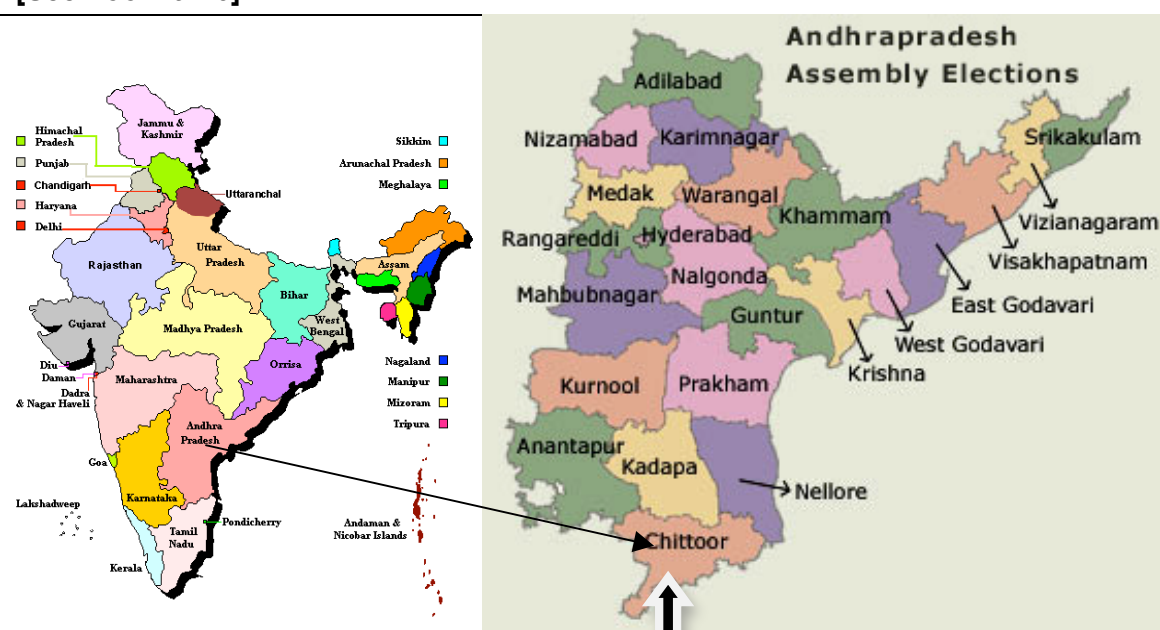


*Explain given coordinates*

The project is situated in Gangavaram Village, Chittoor district in Andhra Pradesh. The site is at a distance of 2 km to the National Highway 219. Being located on the Bangalore-Chennai Highway, Chittoor is easily reachable from the major cities of South India. The place boasts of a well-laid out network of roadways and railways. Renigunta - Katpadi Railway line connects this region with all the major places of the state. Chittoor does not have its own airport; Tirupati airport is the nearest one. The project is located at 13° 13'56 N, 78° 43'24 E.

### D.2. Map

[See Toolkit 1.6]



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Above is a map showing the project location.



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## SECTION E. Outcome stakeholder consultation process

### E.1. Assessment of stakeholder comments

[See Toolkit Annex J]

[See Local Stakeholder Consultation Report B.5 and insert table from ii Assessment of comments. Insert a summary of alterations based on comments]

A translation of sample response by the attendees during the stakeholder consultation meeting held on on has been briefly summarised below in English:

Name	N. Cheuga Reddy
What is your impression of the meeting?	Nice explained
What do you like about the project?	Beneficial for local community and farmer
What do you not like about the project?	-
Signature	---

Two sample responses by the attendees during the stakeholder consultation meeting in English have been reproduced below:

Name	K. Naga Satish
What is your impression of the meeting?	good information about environment
What do you like about the project?	Saves environment and good for society
What do you not like about the project?	Size of the project is 7.5ha only
Signature	K. Naga Satish 5/6/11

Name	Rajesh G
What is your impression of the meeting?	well explained -
What do you like about the project?	employment potential
What do you not like about the project?	None
Signature	Rajesh G

Furthermore, the queries and comments raised by the attendees during the stakeholder consultation meeting have been briefly summarised below:

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Stakeholder comment	Was comment taken into account (Yes/ No)?	Explanation (Why? How?)
<i>Mr. Rajeev – will the project employ local populace for operation?</i>	Yes	More than two-thirds of the plant personnel employed to operate the project activity shall be local populace. This proportion is expected to steadily increase over time as the local people gain experience and expertise in such technology.
<i>Dr. Muralidhar – are the project promoters planning to contribute towards greenery in the plant premises?</i>	Yes	The PP has planned to dedicate around one-thirds of the site area for trees.
<i>Mr. Rajesh – this project shall result in many positive effects on the local environment by eliminating the odour caused by decomposition of poultry litter in the pits dug in the poultry farms. We shall hence have a more aesthetic environment in our village.</i>	Yes	The PP thanks the stakeholder for the positive opinion about the project.
<i>Ms. Sharmila – almost every house in this village is facing problems from flies and other insects that thrive on the poultry farm waste. This project shall result in a considerable reduction of the same and benefit us a lot. We are thankful to RIPL for their noble initiative and promise all possible support required from our end to ensure its success.</i>	Yes	The PP thanks the stakeholder for the positive opinion about the project.
<i>Dr. Saraswathi – this project is a blessing to this region, as it shall contribute towards the improvement of health conditions of the local region. It should be awarded for its</i>	Yes	The PP thanks the stakeholder for the positive opinion about the project.

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<i>contribution to climate change mitigation.</i>		
<i>Ms. Swathi – We live close to a poultry farm and always face the problem of bad smell. Hope with this project in place the litter gets disposed quickly in a more aesthetic manner and we can finally breathe some fresh air.</i>	Yes	The PP thanks the stakeholder for the positive opinion about the project.

### E.2. Stakeholder Feedback Round

Please describe report how the feedback round was organised, what the outcomes were and how you followed up on the feedback.

**[See Toolkit 2.11]**

The stakeholder feedback round (SFR) for the project activity is presently being conducted.

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## SECTION F. Outcome Sustainability assessment

### F.1. 'Do no harm' Assessment

[See Toolkit 2.4.1 and Toolkit Annex H]

Safeguarding principles	Description of relevance to my project	Assessment of my project risks breaching it (low, medium, high)	Mitigation measure
The project respects internationally proclaimed human rights including dignity, cultural property and uniqueness of indigenous people. The project is not complicit in Human Right Abuses	Not relevant	No risk	Not applicable
The project does not involve and is not complicit in involuntary resettlement	Not relevant	No risk	Not applicable
The project does not involve and is not complicit in the alteration, damage or removal of any critical cultural heritage	Not relevant	No risk	Not applicable
The project respects the employees freedom of association and their right to collective bargaining and is not complicit in restrictions of these freedoms and rights	This project involves a lot of contribution from employees all the time	Low risk	Not required
The project does not involve and is not complicit in any form of forced or compulsory labour	Not relevant	No risk	Not required
The project does not employ and is not complicit in any form of child labour	Not relevant	No risk	Not required
The project does not involve and is not in complicit in any	Not relevant	No risk	Not required

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form of discrimination based on gender, race, religion, sexual orientation or any other basis			
The project provides workers with a safe and healthy work environment and is not complicit in exposing workers to unsafe or unhealthy work environments	This is important for the health and safety of workers	Low risk	It will taken care as per the Environment Management Plan
The project takes a precautionary approach in regard to environmental challenges and is not complicit in practices contrary to the precautionary principle. This principle can be defined as “when the activity raises harm to human health or the environment, precautionary measures should be taken even if some cause and effect relationships are not fully established scientifically	Not relevant	No risk	Not required
The project does not involve or complicit in significant conversion or degradation of critical natural habitats including those that are (a) legally protected, (b) officially proposed for protection, (c) identified by authoritative sources for their high conservation value or (d) recognised as protected by traditional local communities	Not relevant	No risk	Not required
The project does not involve	Not relevant	No risk	Not required

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and is not in complicit in corruption			
<b>Additional relevant critical issues for my project type</b>	<b>Description of relevance to my project</b>	<b>Assessment of relevance to my project (low, medium, high)</b>	<b>Mitigation measure</b>
Not identified	Not relevant	No risk	Not required

### F.2. Sustainable Development matrix

[See Toolkit 2.4.2 and Toolkit Annex I]

Insert table in section C3 from your Stakeholder Consultation report (Sustainable Development matrix).

Indicator	Mitigation measure	Relevance to achieving MDG	Chosen parameter and explanation	Preliminary score
Air quality	Air quality monitoring	Goal 7 – Ensure Environmental sustainability	Project activity utilizes poultry litter for electricity production, which improves the air quality as compared to those by the fossil fuel dominated grid mix. Hence the parameter to be monitored for this indicator is the ambient air quality measurement.	+
Water quality and quantity	Water quality measurement	Goal 7- Ensure Environmental sustainability	Project activity does not lead to any major impact on the water resources.	0
Soil condition	Fertility of soil	Goal 7 – ensure Environmental sustainability	Project activity increases the fertility of soil (ash the by-product is an excellent fertilizer). Hence the parameter to be monitored for this indicator is the quantity of ash supplied by the project activity to the farmers.	+
Other pollutants	Air quality	Goal 7- Ensure	Project activity utilizes	+

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Indicator	Mitigation measure	Relevance to achieving MDG	Chosen parameter and explanation	Preliminary score
	monitoring	Environmental sustainability	poultry litter and other biomass for electricity generation and helps mitigating not only GHG emissions and odour, but also other pollutants like Suspended Particulate Matter (SPM) as compared to those by the fossil fuel dominated grid mix. Hence the parameter to be monitored for this indicator is the SPM measurement.	
Biodiversity	NA		The project has surplus biomass available therefore the project does not impact the biodiversity in a negative way.	0
Quality of employment	Nature of employment during and after the project	Goal 1- Eradicate extreme hunger and poverty	Project activity will impart training to the employed staff for successful maintenance and operation of project, thus improving the technical knowledge and acumen of the local populace. Hence the parameter to be monitored for this indicator is the record of the trainings imparted to the staff.	+
Livelihood of the poor	Income of employees after project	Goal 1- Eradicate extreme hunger and poverty	Project activity helps employ people and give them jobs and a source	+

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Indicator	Mitigation measure	Relevance to achieving MDG	Chosen parameter and explanation	Preliminary score
	commencement		of income, thus the quality of living will improve. Hence the parameter to be monitored for this indicator is the employment records.	
Access to affordable and clean energy services	Status after the implementation of project activity	Goal 7 – Ensure Environmental Sustainability	The fuels being poultry litter and other biomass being carbon neutral, the project activity helps mitigating GHG emissions by providing clean energy to the Southern Regional electricity Grid of India. Hence the parameter to be monitored for this indicator is the quantity of electricity exported to the grid by the project activity.	+
Human and institutional capacity	NA			
Quantitative employment and income generation	Number of people employed during and after project activity	Goal 1- Eradicate extreme hunger and poverty	Project activity will lead to generate employment opportunities for both skilled and unskilled labours. Hence the parameter to be monitored for this indicator is the number of staff employed for the project activity.	+
Balance of payments and investment	NA			



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Indicator	Mitigation measure	Relevance to achieving MDG	Chosen parameter and explanation	Preliminary score
Technology transfer and technological self-reliance	NA			

### SECTION G. Sustainability Monitoring Plan

[See Toolkit 2.4.3 and Toolkit Annex I]

*Copy Table for each indicator*

No	<b>1</b>	
Indicator	<b>Air quality</b>	
Mitigation measure	Not Required	
Chosen parameter	<b>Ambient air quality measurement</b>	
Current situation of parameter	Currently the project is being implemented, hence not operational	
Estimation of baseline situation of parameter	As per emission intensity of the fossil fuel dominated grid mix	
Future target for parameter	Within limits specified by the State Pollution Control Board	
Way of monitoring	How	Air quality testing records
	When	Quarterly
	By who	Project proponent, external testing agencies

No	<b>2</b>	
Indicator	<b>Soil condition</b>	
Mitigation measure	Not Required	
<i>Repeat for each parameter</i>		
Chosen parameter	<b>Quantity of ash supplied to farmers</b>	
Current situation of parameter	Currently the project is being implemented, hence not operational	
Estimation of baseline situation of parameter	0	
Future target for parameter	41,581 tonnes per year	
Way of monitoring	How	Plant records
	When	Continuous
	By who	Project proponent

No	<b>3</b>
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Indicator		<b>Other pollutants</b>
Mitigation measure		Not Required
<i>Repeat for each parameter</i>		
Chosen parameter		<b>SPM measurement</b>
Current situation of parameter		Currently the project is being implemented, hence not operational
Estimation of baseline situation of parameter		As per emission intensity of the fossil fuel dominated grid mix
Future target for parameter		Within limits specified by the State Pollution Control Board
Way of monitoring	How	SPM testing records
	When	Monthly
	By who	Project proponent, external testing agencies

No		<b>4</b>
Indicator		<b>Quality of employment</b>
Mitigation measure		Not Required
<i>Repeat for each parameter</i>		
Chosen parameter		<b>Training records</b>
Current situation of parameter		Currently the project is being implemented, hence not operational
Estimation of baseline situation of parameter		0
Future target for parameter		At least once a year (more frequently during the commissioning and initial operation period).
Way of monitoring	How	Training programme attendance registers
	When	As per frequency of training programmes
	By who	Project proponent

No		<b>5</b>
Indicator		<b>Livelihood of the poor</b>
Mitigation measure		Not Required
<i>Repeat for each parameter</i>		
Chosen parameter		<b>Income of employees after project commencement</b>
Current situation of parameter		Currently the project is being implemented, hence not operational
Estimation of baseline situation of parameter		0
Future target for parameter		Employees shall earn salaries/wages for the operation and maintenance of the project activity.
Way of monitoring	How	Employee records: employee rolls, pay-slips, etc.
	When	Monthly
	By who	Project proponent

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No	<b>6</b>	
Indicator	<b>Access to affordable and clean energy services</b>	
Mitigation measure	Not Required	
<i>Repeat for each parameter</i>		
Chosen parameter	<b>Electricity exported to the grid</b>	
Current situation of parameter	Currently the project is being implemented, hence not operational	
Estimation of baseline situation of parameter	0	
Future target for parameter	47,041 MWh	
Way of monitoring	How	Joint Meter Statements, that can be cross-checked against the electricity sale invoices
	When	Monthly
	By who	Project proponent, grid

No	<b>6</b>	
Indicator	<b>Quantitative employment and income generation</b>	
Mitigation measure	Not Required	
<i>Repeat for each parameter</i>		
Chosen parameter	<b>No. of staff employed in the project activity</b>	
Current situation of parameter	Currently the project is being implemented, hence not operational	
Estimation of baseline situation of parameter	0	
Future target for parameter	As per the requirements for plant operations	
Way of monitoring	How	Employee rolls, pay-slips, attendance registers, etc.
	When	Monthly
	By who	Project proponent

### Additional remarks monitoring

For details regarding the monitoring of the other parameters pertaining to the calculation of GHG emission reductions for the project activity under consideration, please refer to sections B.6.3. of the CDM PDD.

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## SECTION H. Additionality and conservativeness



This section is only applicable if the section on additionality and/or your choice of baseline does not follow Gold Standard guidance

### H.1. Additionality

#### [See Toolkit 2.3]

Please refer to section B.5. of the PDD, in line with the tool for “Demonstration and assessment of additionality”, version 06.0.0..

### H.2. Conservativeness

#### [See Toolkit 2.2]

The PP hereby wishes to clarify that the most conservative baseline scenario has been used for baseline establishment for the project, especially considering the relevant guidelines of the approved methodology ACM0010.

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## ANNEX 1 ODA declaration

[See Toolkit Annex D]



### ANNEX D - OFFICIAL DEVELOPMENT ASSISTANCE DECLARATION

Date: 30/08/2012

The Gold Standard Foundation

79 Avenue Louis Casal

Geneva Cointrin, CH-1216

Switzerland

RE: Declaration of Non-Use of Official Development Assistance by Project Owner of GS 1022

As Project Owner of the above-referenced project, and acting on behalf of all Project Participants, I now make the following representations:

#### I. The Gold Standard Documentation

I am familiar with the provisions of The Gold Standard Documentation relevant to Official Development Assistance (ODA). I understand that the above-referenced project is not eligible for Gold Standard registration if the project receives or benefits from Official Development Assistance with the condition that some, or all, of the carbon credits [CERs, ERUs, or VERs] coming out of the project are transferred to the ODA donor country. I hereby expressly declare that no financing provided in connection with the above-referenced project has come from or will come from ODA that has been or will be provided under the condition, whether express or implied, that any or all of the carbon credits issued as a result of the project's operation will be transferred directly or indirectly to the country of origin of the ODA.

#### II. Duty to Notify Upon Discovery

If I learn or if I am given any reason to believe at any stage of project design or implementation that ODA has been used to support the development or implementation of the project, or that an entity providing ODA to the host country may at some point in the future benefit directly or indirectly from the carbon credits generated from the project as a condition of investment, I will notify The Gold Standard immediately using the Amended ODA Declaration Form provided below.

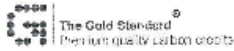
#### III. Investigation

The Gold Standard reserves the right to conduct an investigation into any project it reasonably believes may be receiving ODA with the condition that some or all of the carbon credits from the project will be transferred to the ODA donor country.

#### IV. Sanctions



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I am fully aware that the sanctions identified in The Gold Standard Terms and Conditions may be applied to me or the above-referenced project in the event that any of the information provided above is false or I fail to notify The Gold Standard of any changes to ODA in a timely manner.

I swear that all of the statements contained herein are true to the best of my knowledge.

Signed: 

Name: Gopi Sridhar Gurram

Title: Managing Director

On behalf of: Redan Infrastructure Private Limited

Place: Hyderabad, India

