140 MW SOLAR PHOTOVOLTAIC PROJECT IN RAJASTHAN

Document Prepared By EKI Energy Services Limited

Project Title	140 MW Solar Photovoltaic Project in Rajasthan
Project ID	VCS 1709
Project Start Date	18th July 2017
SD Contributions Reporting Period	01st -January- 2019 to 31st -January- 2020 (Inclusive of both the dates)
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1 SUMMARY OF SUSTAINABLE DEVELOPMENT CONTRIBUTIONS

The main purpose of this project activity is to generate clean form of electricity through renewable solar energy source. Rising Bhadla 1 Private Ltd. and Rising Bhadla 2 Private Ltd. are the promoter of the proposed project activity. The project activity involves installation of 2 x 70 MW solar power project at Bhadla, Jodhpur, Rajasthan. Over the 10 years crediting period, for the duration 18th -July-2017 to 17th -July-2027, the project would replace anthropogenic emissions of greenhouse gases (GHG's) estimated to be approximately 241,573 tCO_2e per year, thereon displacing 250,258 MWh/year amount of electricity from the generation-mix of power plants connected to the Indian grid, which is mainly dominated by thermal/fossil fuel based power plant.

The details of the project and the state of installation are mentioned in the table:-

Project Proponents Name	Capacity in MW (AC)	COD	Connection with Grid	State	Usage
Rising Bhadla 1 Private Ltd.	40 MW	18th-July-2017	Indian Grid	Rajasthan	Sale to Grid
	30 MW	29th-September-2017			
Rising Bhadla 2 Private Ltd.	40 MW	29th-August-2017			
	30 MW	1st-November-2017			

Scenario existing prior to the implementation of project activity:

The scenario existing prior to the implementation of the project activity, is electricity delivered to the grid by the project activity that would have otherwise been generated by the operation of grid-connected power plants and by the addition of new generation sources, as reflected in the combined margin (CM) calculations described in the "Tool to calculate the emission factor for an electricity system"[1] -Version 05.0 (EB 87, Annex 09)

[1] https://cdm.unfccc.int/methodologies/PAmethodologies/tools/am-tool-07-v5.0.pdf

During the current reporting period the project resulted in 313,939.68 MWh while Baseline emissions 303,044 tCO_2e which included the period from 01st -January-2019 to 31st -January-2020 (inclusive of both dates).

The several sustainable development activities has been carried out during the current monitoring period are mentioned below:

For SDG-7: Rising Bhadla 1 Private Ltd. and Rising Bhadla 2 Private Ltd has generated 313,939.68 MWh clean energy thorugh solar photovoltaic project during the current reporting period. The evidence for the same is provided in Appendix-1.

For SDG-13: Rising Bhadla 1 Private Ltd. and Rising Bhadla 2 Private Ltd has prevented the release of 303,044 tCO_2e anthropogenic emissions of greenhouse gases (GHG's) into the atmosphere during the reporting period. The evidence for the same is provided in Appendix-1. The VCS MR of the project for this monitoring period acts as the supporting evidence of this.

2 PROJECT CONTRIBUTIONS

Table 1 : Sustainable Development Contributions

Row number	SDG Target	SDG Indicator	Net Impact on SDG Indicator	Current Project Contributions	Contributions Over Project Lifetime
1)	7.2	7.2.1: Renewable energy share in the total final energy consumption	Implemented activities to increase	About 313,939.68 MWh renewable electricity has supplied to Indian grid during the reported period that helps to increase the renewable energy share in the energy mix.	About 695,427.68 (381,488+313,939.68) MWh renewable electricity has supplied to Indian grid throughout the project lifetime that helps to increase the renewable energy share in the energy mix
2)	13.0	Tonnes of greenhouse gas emissions avoided or removed	Implemented activities to increase	By supplying 313,939.68 MWh clean electricity (generated through Solar PV) to Indian grid, the project avoided release of 303,044 tCO_2e in to the atmosphere during the reporting period.	Overalll Prevented the release of 671,292 (368,248+303,044) tCO_2e into the atmosphere since project commissioning.

APPENDIX 1: SUPPORTING EVIDENCE

1. Supporting evidences for affordable and clean energy (SDG-7) through solar photovoltaic project can be reffered from: https://registry.verra.org/app/projectDetail/VCS/1709

2. Supporting evidences for the tonnes of greenhouse gas emissions avoided or removed (SDG-13) can be reffered from: https://registry.verra.org/app/projectDetail/VCS/1709