

TEMPLATE

MONITORING REPORT

PUBLICATION DATE **14.10.2020**

VERSION **v. 1.1**

RELATED SUPPORT - **TEMPLATE GUIDE Monitoring Report v. 1.1**

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KEY PROJECT INFORMATION

Key Project Information

GS ID (s) of Project (s)	GS7678
Title of the project (s) covered by monitoring report	300 MW Wind Power Project by SITAC Kabini in Gujarat
Version number of the PDD/VPA-DD (s) applicable to this monitoring report	05
Version number of the monitoring report	04
Completion date of the monitoring report	10/03/2025
Date of project design certification	17/06/2022
Date of Last Annual Report	Not applicable
Monitoring period number	01
Duration of this monitoring period	11/08/2022 to 31/12/2023 (Both days included)
Project Representative	Kosher Climate India Private Limited
Host Country	India
Activity Requirements applied	☐ Community Services Activities ☒ Renewable Energy Activities ☐ Land Use and Forestry Activities/Risks & Capacities ☐ N/A
Methodology (ies) applied and version number	ACM0002: Grid-connected electricity generation from renewable sources --- Version 20.0
Product Requirements applied	☒ GHG Emissions Reduction & Sequestration ☐ Renewable Energy Label ☐ N/A

Table 1 - Sustainable Development Contributions Achieved

Sustainable Development Goals Targeted	SDG Impact	Amount Achieved	Units/ Products
7 Affordable and Clean Energy	Renewable Electricity generated	1,073,798	MWh
8 Decent Work and Economic Growth	Trainings provided to O&M staff	48	Nos.
Trainings Employees	Income	INR 204,000.00	Income generation (INR/ employee)
	Number of jobs provided	37	Nos.
13 Climate Action (mandatory)	Emission Reduction	999,168.00	tCO ₂

Table 2 – Product Vintages

		Amount Achieved
Start Dates	End Dates	GSVER
11/08/2022	31/12/2022	153,144.00
01/01/2023	31/12/2023	846,024.00

SECTION A. DESCRIPTION OF PROJECT

A.1. General description of project

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The project activity is developed by M/s Sitac Kabini Renewables Pvt. Ltd. (SKRPL). SKRPL is a joint venture between EDF Renewables and Sitac Group. The main purpose of this project activity is to generate clean form of electricity through renewable Wind energy source for sale of electricity to the grid. The project activity involves installation of 112 WTGs of 2.7 MW capacity, totaling to 302.4 MW capacity Wind power project. The process of generating power through wind resources is a clean technology, as there is no fossil fuel fired or no greenhouse gases are emitted during the process.

The project commissioning details are explained in section B.1.

The project replacing the anthropogenic emissions of greenhouse gases (GHG's) estimated to be approximately 909,553 tCO₂e per annum, thereon displacing average 977,489 MWh/year amount of electricity from the generation-mix of power plants connected to the Indian electricity grid, which is mainly dominated by thermal/ fossil fuel-based power plant.

The project activity is the installation of a Greenfield renewable wind power project and this is not a CPA that has been excluded from a registered CDM PoA as a result of erroneous inclusion of CPAs.

The details of the project are mentioned in the table:

Start date	18/10/2019
Power Purchase Agreement	29/01/2019
Start date of first crediting period	11/08/2022 (commercial Operation date of first phase)
End date of first crediting period	10/08/2027
Location	Villages in Kutch District in the State of Gujarat (Location is mentioned in section A.2 of this report)
Date of listing	27/03/2020

Baseline Scenario

As the project activity is the installation of a new grid-connected renewable power plant/unit, the baseline scenario is the following as per applied methodology: "Electricity delivered to the grid by the project activity would have otherwise been generated by the operation of grid-connected power plants and by the addition of new generation

sources, as reflected in the combined margin (CM) calculations described in the “Tool to calculate the emission factor for an electricity system”. Hence, pre-project scenario and baseline scenario are the same.

Positive contribution of the project to the following Sustainable Development Goals

1. SDG13: Climate Action: The project led to the emission reduction of 999,168 tCO₂ during the monitoring period due to implementation of project activity.
2. SDG 7: Affordable and Clean Energy: The project is generated 1,073,798 MWh of clean energy during the monitoring days.
3. SDG 8: Decent Work and Economic Growth: The project provided direct employment to 37 persons on permanent and contractual basis. The project participant provided 48 Trainings & workshops which are conducted for the O&M staff. There were 37 employment opportunities has been provided and generated Income of INR 204,000 per employee during the current monitoring period.

A.2. Location of project

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Host country

India

Region/ State/ Province

Gujarat

Location: Villages in Kutch District in the State of Gujarat, India

S.No	Capacity	WTG Location No.	Villages
1	94.5MW (2.7MW each)	WTG 9	Ghaduli
2		WTG 22	Ghaduli
3		WTG 6	Ghaduli
4		WTG 25	Siyot
5		WTG 24	Siyot
6		WTG 33	Ghaduli
7		WTG 13	Ghaduli
8		WTG 39	Ghaduli
9		WTG 26	Siyot
10		WTG 40	Ghaduli
11		WTG 8	Ghaduli
12		WTG 15	Ghaduli
13		WTG 18	Ghaduli

14		WTG 20	Ghaduli
15		WTG 30	Ghaduli
16		WTG 27	Virani
17		WTG 5	Virani
18		WTG 3	Dhareshi
19		WTG 31	Dhareshi
20		WTG 14	Virani
21		WTG 38	Ghaduli
22		WTG 53	Ghaduli
23		WTG 32	Virani
24		WTG 56	Virani
25		WTG 57	Virani
26		WTG 2	Dhareshi
27		WTG 11	Ghaduli
28		WTG 1	Chugger
29		WTG 21	Ghaduli
30		WTG 17	Ghaduli
31		WTG 34	Ghaduli
32		WTG 35	Ghaduli
33		WTG 37	Ghaduli
34		WTG 7	Ghaduli
35		WTG 36	Ghaduli
36	21.6MW (2.7MW each)	WTG 4	Dhareshi
37		WTG 47	Mudhan
38		WTG 48	Mudhan
39		WTG 49	Mudhan
40		WTG 59	Mudhan
41		WTG 60	Mudhan
42		WTG 52	Sayara
43		WTG 51	Sayara
44	18.9MW (2.7MW each)	WTG 64	Sayara
45		WTG 50	Sayara
46		WTG 73	Guner
47		WTG 41	Guner

48		WTG 70	Guneri
49		WTG 42	Guneri
50		WTG 86	Guneri
51	13.5MW (2.7MW each)	WTG 44	Guneri
52		WTG 62	Guneri
53		WTG 68	Guneri
54		WTG 45	Guneri
55		WTG 46	Karanpar
56	10.80MW (2.7MW each)	WTG 12	Ghaduli
57		WTG 10	Ghaduli
58		WTG 55	Dhareshi
59		WTG 28	Virani
60	13.50MW (2.7MW each)	WTG 16	Ghaduli
61		WTG 54	Guneri
62		WTG 61	Guneri
63		WTG 75	Atdo
64		WTG 88	Atdo
65	35.10MW (2.7MW each)	WTG 58	Virani
66		WTG 65	Sayara
67		WTG 74	Mudhan
68		WTG 76	Guneri
69		WTG 78	Guneri
70		WTG 80	Guneri
71		WTG 81	Guneri
72		WTG 84	Guneri
73		WTG 89	Dayapar
74		WTG 96	Ghaduli
75		WTG 67	Atdo
76		WTG 87	Guneri
77		WTG 43	Guneri
78	10.8MW (2.7MW each)	WTG 82	Guneri
79		WTG 71	Guneri
80		WTG 69	Guneri
81		WTG 83	Guneri

82	10.8MW (2.7MW each)	WTG 72	Karanpar
83		WTG 66	Atdo
84		WTG 79	Guneri
85		WTG 19	Ghaduli
86	13.5MW (2.7MW each)	WTG 94	Guneri
87		WTG 92	Guneri
88		WTG 91	Mudhan
89		WTG 77	Guneri
90		WTG 63	Guneri
91	13.5MW (2.7MW each)	WTG 23	Ghaduli
92		WTG 98	Ghaduli
93		WTG 85	Ghaduli
94		WTG 99	Dhareshi
95		WTG 97	Mudhan
96	29.7MW (2.7MW each)	WTG 29	Virani
97		WTG 111	Baiyavo
98		WTG 93	Fulra
99		WTG 102	Mudhan
100		WTG 112	Guneri
101		WTG 105	Sinapar
102		WTG 106	Sinapar
103		WTG 101	Atdo
104		WTG 100	Atdo
105		WTG 103	Mudhan
106		WTG 104	Atdo
107	16.2MW (2.7MW each)	WTG 110	Chher Moti
108		WTG 108	Chher Nani
109		WTG 107	Khengerpar
110		WTG 109	Cheer Moti
111		WTG 95	Cheer Moti
112		WTG 90	Maldo

The project consists of 112 WTGs of 2.7MW each. Details of their geo-coordinates are given below.

S. No	WTG Location ID as per WRLDC	WTG Location ID as per SCADA website	GEDA ID	WTG Location ID	33kV Feeder No.	Latitude	Longitude
1	WTG 9	SRK – 009	SKRPL/2021 – 22/SECI-V/4219	SL-04	F-5	23.7046°N	68.9211°E
2	WTG 22	SRK – 022	SKRPL/2021 – 22/SECI-V/5533	GH-606a	F-5	23.6966°N	68.9042°E
3	WTG 6	SRK – 006	SKRPL/2021 – 22/SECI-V/4219	GH-150b	F-6	23.6817°N	68.8945°E
4	WTG 25	SRK – 025	SKRPL/2021 – 22/SECI-V/4219	SL-07	F-5	23.7175°N	68.9222°E
5	WTG 24	SRK – 024	SKRPL/2021 – 22/SECI-V/4219	SY-220a	F-5	23.7182°N	68.9153°E
6	WTG 33	KPR – 033	SKRPL/2021 – 22/SECI-V/1008	GH-153a	F-5	23.6978°N	68.9158°E
7	WTG 13	SRK – 013	SKRPL/2021 – 22/SECI-V/4219	GH-158	F-5	23.6908°N	68.9194°E
8	WTG 39	SRK – 039	SKRPL/2021 – 22/SECI-V/1008	GHR-047b	F-5	23.6908°N	68.9130°E
9	WTG 26	SRK – 026	SKRPL/2021 – 22/SECI-V/ 4219	GHR-059b	F-5	23.7228°N	68.9137°E
10	WTG 40	SRK – 040	SKRPL/2021 – 22/SECI-V/1008	SL-06	F-5	23.7073°N	68.9112°E
11	WTG 8	SRK – 008	SKRPL/2021 – 22/SECI-V/4219	SL-06	F-5	23.7091°N	68.9252°E

12	WTG 15	SRK – 015	SKRPL/2021 – 22/SECI- V/5533	GH-162b	F-6	23.6765°N	68.8915°E
13	WTG 18	SRK – 018	SKRPL/2021 – 22/SECI- V/4219	GH-304c	F-6	23.6924°N	68.9030°E
14	WTG 20	SRK – 020	SKRPL/2021 – 22/SECI- V/1008	GH-439	F-6	23.7034°N	68.9021°E
15	WTG 30	SRK – 030	SKRPL/2021 – 22/SECI- V/5533	VI-245a	F-6	23.6721°N	68.8964°E
16	WTG 27	SRK – 027	SKRPL/2021 – 22/SECI- V/4219	VI-225a	F-7	23.6732°N	68.8806°E
17	WTG 5	SRK - 005	SKRPL/2021 – 22/SECI- SL-02V/4219	DH-137b	F-8	23.7032°N	68.8533°E
18	WTG 3	SRK – 003	SKRPL/2021 – 22/SECI- V/4219	SL-02	F-8	23.6950°N	68.8595°E
19	WTG 31	SRK – 031	SKRPL/2021 – 22/SECI- V/5533	VI-620a	F-6	23.6683°N	68.9020°E
20	WTG 14	SRK – 014	SKRPL/2021 – 22/SECI- V/4219	GH-161c	F-6	23.6813°N	68.9202°E
21	WTG 38	SRK – 038	SKRPL/2021 – 22/SECI- V/5533	GHR-044a	F-6	23.6757°N	68.9127°E
22	WTG 53	SRK – 053	SKRPL/2021 – 23/SECI- V/2110	GHR-045c	F-7	23.6805°N	68.9123°E
23	WTG 32	SRK – 032	SKRPL/2021 – 22/SECI- V/4282	VI-755b	F-7	23.6551°N	68.8881°E
24	WTG 56	KPR – 056	SKRPL/2021 – 22/SECI- V/4282	VI-860	F-7	23.6692°N	68.8837°E

25	WTG 57	SRK – 057	SKRPL/2021 – 22/SECI- V/4282	VI-804	F-8	23.6566°N	68.8773°E
26	WTG 2	SRK – 002	SKRPL/2021 – 22/SECI- V/4219	DH-130a	F-8	23.6898°N	68.8710°E
27	WTG 11	SRK – 011	SKRPL/2021 – 22/SECI- V/4219	GH-156a	F-3	23.7028°N	68.8651°E
28	WTG 1	SRK – 001	SKRPL/2021 – 22/SECI- V/4219	CH-294	F-6	23.7177°N	68.8472°E
29	WTG 21	SRK – 021	SKRPL/2021 – 22/SECI- V/1008	GH-473	F-5	23.6866°N	68.9048°E
30	WTG 17	SRK – 017	SKRPL/2021 – 22/SECI- V/4219	GH-164	F-6	23.7111°N	68.9152°E
31	WTG 34	SRK – 034	SKRPL/2021 – 22/SECI- V/5533	GH-160	F-3	23.6854°N	68.9178°E
32	WTG 35	SRK – 035	SKRPL/2021 – 22/SECI- V/5533	GH-303	F-3	23.7139°N	68.8826°E
33	WTG 37	SRK – 037	SKRPL/2021 – 22/SECI- V/1008	GHR-037a	F-3	23.7136°N	68.8762°E
34	WTG 7	SRK – 007	SKRPL/2021 – 22/SECI- V/4219	GH-151	F-3	23.7045°N	68.8816°E
35	WTG 36	SRK – 036	SKRPL/2021 – 22/SECI- V/4282	GHR-304b	F-3	23.7143°N	68.8674°E
36	WTG 4	SRK-004	-	SL-01	F-8	23.6853°N	68.8610°E
37	WTG 47	SRK-047	-	MU-352	F-4	23.7442°N	68.9433°E
38	WTG 48	SRK-048	-	MU-354	F-4	23.7557°N	68.9390°E
39	WTG 49	SRK-048	-	MU-356	F-4	23.7423°N	68.9309°E
40	WTG 59	SRK-059	-	MU-367	F-4	23.7786°N	68.9442°E
41	WTG 60	SRK-060	-	MU-522a	F-4	23.7782°N	68.9353°E

42	WTG 52	SRK-052	-	SA-405	F-2	23.7761°N	68.9029°E
43	WTG 51	SRK-051	-	SA-408	F-2	23.7863°N	68.8926°E
44	WTG 64	SRK-064	-	SA-410a	F-2	23.7832°N	68.9051°E
45	WTG 50	SRK-050	-	SA-411	F-2	23.7767°N	68.8729°E
46	WTG 73	SRK-073	-	LKTGJ268	F-2	23.7925°N	68.8812°E
47	WTG 41	SRK-041	-	GN-170a	F-11	23.7812°N	68.8200°E
48	WTG 70	SRK-070	-	GN-853a	F-11	23.7650°N	68.8211°E
49	WTG 42	SRK-042	-	GN-234a	F-11	23.8014°N	68.8273°E
50	WTG 86	SRK-086	-	LKTGJ155	F-11	23.7771°N	68.8226°E
51	WTG 44	SRK-044	-	GN-335	F-1	23.7881°N	68.8539°E
52	WTG 62	SRK-062	-	GN-658	F-11	23.7721°N	68.8344°E
53	WTG 68	SRK-068	-	GN-287a	F-1	23.8114°N	68.8563°E
54	WTG 45	SRK-045	-	GN-414	F-1	23.8082°N	68.8464°E
55	WTG 46	SRK-046	-	KR-667a	F-1	23.7980°N	68.8390°E
56	WTG 12	SRK-012	-	SL-03	F-3	23.7089°N	68.8760°E
57	WTG 10	SRK-010	-	SL-05	F-7	23.6794°N	68.8816°E
58	WTG 55	SRK-055	-	DH-132c	F-8	23.7100°N	68.8517°E
59	WTG 28	SRK-028	-	VI-226	F-7	23.6587°N	68.8816°E
60	WTG 16	SRK-016	-	GH-163	F-8	23.6894°N	68.8786°E
61	WTG 54	SRK-054	-	GN-420	F-1	23.7970°N	68.8593°E
62	WTG 61	SRK-061	-	GN-663	F-1	23.8043°N	68.8593°E
63	WTG 75	SRK-075	-	MU-182a	F-12	23.7608°N	68.9042°E
64	WTG 88	SRK-088	-	AT-393	F-12	23.7639°N	68.9008°E
65	WTG 58	SRK-058	-	VI-809	F-7	23.6527°N	68.8787°E
66	WTG 65	SRK-065	-	SA-877	F-2	23.7884°N	68.8010°E
67	WTG 74	SRK-074	-	MU-519a	F-4	23.7568°N	68.9155°E
68	WTG 76	SRK-076	-	GN-665a	F-1	23.7930°N	68.8458°E
69	WTG 78	SRK-078	-	GN-930a	F-2	23.7692°N	68.8509°E
70	WTG 80	SRK-080	-	GN-933b	F-2	23.7793°N	68.8668°E
71	WTG 81	SRK-081	-	GN-954	F-11	23.7993°N	68.8092°E
72	WTG 84	SRK-084	-	GN-875	F-2	23.7716°N	68.8709°E
73	WTG 89	SRK-089	-	DAR-850	F-7	23.6469°N	68.8931°E
74	WTG 96	SRK-096	-	GHR-036c	F-3	23.7221°N	68.8652°E
75	WTG 67	SRK-067	-	ATR-696	F-12	23.7540°N	68.8993°E
76	WTG 87	SRK-087	-	LKTGJ157	F-11	23.7853°N	68.8191°E
77	WTG 43	SRK-043	-	GN-236a	F-11	23.7946°N	68.8083°E
78	WTG 82	SRK-082	-	GN-961a	F-11	23.7688°N	68.8207°E
79	WTG 71	SRK-071	-	GN-869	F-1	23.8168°N	68.8611°E

80	WTG 69	SRK-069	-	GN-839a	F-2	23.7986°N	68.8836°E
81	WTG 83	SRK-083	-	GN-168a	F-1	23.8007°N	68.8471°E
82	WTG 72	SRK-072	-	KR-741	F-1	23.8019°N	68.8360°E
83	WTG 66	SRK-066	-	AT-695	F-12	23.7587°N	68.8853°E
84	WTG 79	SRK-079	-	GN-932a	F-2	23.7942°N	68.8748°E
85	WTG 19	SRK-019	-	GH-433a	F-3	23.7170°N	68.8735°E
86	WTG 94	SRK-094	-	GN-950a	F-1	23.8079°N	68.8626°E
87	WTG 92	SRK-092	-	GN-970b	F-11	23.7995°N	68.8186°E
88	WTG 91	SRK-091	-	MU-904a	F-4	23.7375°N	68.9371°E
89	WTG 77	SRK-077	-	GN-868a	F-11	23.7956°N	68.8238°E
90	WTG 63	SRK-063	-	GN-641b	F-11	23.7732°N	68.8222°E
91	WTG 23	SRK-023	-	GH-699a	F-3	23.7103°N	68.8622°E
92	WTG 98	SRK-098	-	GH-788a	F-8	23.7009°N	68.8703°E
93	WTG 85	SRK-085	-	GH-942	F-8	23.7072°N	68.8659°E
94	WTG 99	SRK-099	-	DH-766a	F-8	23.6978°N	68.8509°E
95	WTG 97	SRK-097	-	MU-366d	F-4	23.7756°N	68.7756°E
96	WTG 29	SRK-029	SKRPL/1/202 2-23/SECI- V/5043	VI-227	F-7	23.6632°N	68.8789°E
97	WTG 111	SRK-111	SKRPL/03/20 21-22/SECI- V/5533	BA-561a	F-10	23.7345°N	68.7372°E
98	WTG 93	SRK-093	SKRPL/1/202 2-23/SECI- V/5443	LKTGJ139	F-10	23.7268°N	68.7953°E
99	WTG 102	SRK-102	SKRPL/06/20 22-23/SECI- V/2110	MU-355b	F-4	23.7625°N	68.9276°E
100	WTG 112	SRK-112	SKRPL/03/20 22-23/SECI- V/7262	GN-858b	F-11	23.7646°N	68.8409°E
101	WTG 105	SRK-105	SKRPL/01/20 22-23/SECI- V/5444	SI-216c	F-10	23.7796°N	68.7158°E
102	WTG 106	SRK-106	SKRPL/01/20 22-23/SECI- V/5445	SI-580c	F-10	23.7657°N	68.7179°E

103	WTG 101	SRK-101	SKRPL/07/2022-23/SECI-V/2363	ATG-001A	F-12	23.7389°N	68.8613°E
104	WTG 100	SRK-100	SKRPL/07/2022-23/SECI-V/2363	ATG-002A	F-12	23.7363°N	68.8664°E
105	WTG 103	SRK-103	SKRPL/08/2022-23/SECI-V/2877	MU-865b	F-4	23.7584°N	68.9220°E
106	WTG 104	SRK-104	SKRPL/11/2022-23/SECI-V/4265	ATR-692a	F-12	23.7656°N	68.8941°E
107	WTG 110	SRK-110	SKRPL/2021-22/SECI-V/1008	CN-115a	F-10	23.7832°N	68.6575°E
108	WTG 108	SRK-108	SKRPL/2021-22/SECI-V/1008	CM-112b	F-10	23.7714°N	68.6675°E
109	WTG 107	SRK-107	SKRPL/2022-23/SECI-V/2363	CM-453c	F-10	23.7520°N	68.6475°E
110	WTG 109	SRK-109	SKRPL/2022-23/SECI-V/2110	CM-983	F-10	23.7665°N	68.6646°E
111	WTG 95	SRK-095	SKRPL/2021-22/SECI-V/1008	KP-537	F-10	23.7749°N	68.6798°E
112	WTG 90	SRK-090	SKRPL/2023-24/SECI-V/1335	MA-929	F-10	23.7398°N	68.7087°E



A.3. Reference of applied methodology

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Title: Grid-connected electricity generation from renewable sources.

References: UNFCCC Approved Large Scale Consolidated Methodology: ACM0002 "Grid-connected electricity generation from renewable sources", Version 20.0.

<https://cdm.unfccc.int/methodologies/DB/XP2LKUSA61DKUQC0PIWPGWDN8ED5PG>

Tools:

- TOOL01: Tool for the demonstration and assessment of additionality 7.0
<http://cdm.unfccc.int/methodologies/PAmethodologies/tools/am-tool-01-v7.0.0.pdf>
- TOOL07: Tool to calculate the emission factor for an electricity system 7.0
<https://cdm.unfccc.int/methodologies/PAmethodologies/tools/am-tool-07-v7.0.0.pdf>

A.4. Crediting period of project

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Start date of crediting period: 11/08/2022

Type of Crediting Period: Renewable

End of Crediting period: 10/08/2027

Total Length of crediting period: 5 years which can be renewed twice.

SECTION B. IMPLEMENTATION OF PROJECT

B.1. Description of implemented project

>> In wind energy generation, kinetic energy of wind is converted into mechanical energy and subsequently into electrical energy. Wind blowing at high speeds has a considerable amount of kinetic energy. When this kinetic energy passes through the blades of the wind turbines, it is converted into mechanical energy and rotates the wind blades. When the wind blades rotate, the connected shaft hence rotates, which is connected to a generator, thereby producing electricity. The technology is a clean technology since there are no GHG emissions associated with the electricity generation. Hence the project activity has used an environmentally safe and sound technology. The project activity involves the installation of 112 WTGs of 2.7MW capacity each, i.e. total capacity of 302.4MW.

Manufacturer: GE India Industrial Private Limited

Make: GE2.7 132RD/HH 130make

Also, there is no transfer of technology involved in this project activity.

The commissioning details of the project is given below:

Sl. No	No. of WTGs	Capacity of installation (MW)	WTG Site locations	Commercial operation date
1	35	94.5	Ghaduli Siyot Virani Dhareshi Chugger	10/08/2022 ¹
2	08	21.6	Mudhan Sayara Dhareshi	18/08/2022
3	07	18.9	Sayara Guner	23/08/2022
4	05	13.5	Guner Karanpar	24/08/2022
5	04	10.80	Ghaduli Dhareshi Virani	01/09/2022
6	05	13.50	Ghaduli Guner Atdo	05/09/2022
7	13	35.10	Sayara Mudhan Guner Dayapar Ghaduli Atdo	20/09/2022
8	04	10.8	Guner	23/09/2022
9	04	10.8	Karanpar Atdo Guner Ghaduli	10/10/2022
10	05	13.5	Mudhan Guner	21/11/2022

11	05	13.5	Ghaduli Dhareshi Mudhan	05/12/2022
12	11	29.7	Virani Baiyavo Fulra Mudhan Guner Sinapar Atdo	29/05/2023
13	06	16.2	Chher Nani Khengerpar Cheer Moti Maldo	30/05/2023

The technical specifications are mentioned below:

MOTOR	
Maximum power output	2730 kW
Diameter	132 m
Number of blades	3
Swept area	13,684 m ²
Rotor speed range	7.03 to 13.91 rpm
Rotational direction	Clockwise looking downwards
Tip speed @ rated power	84.3 m/s
Orientation	Upwind
Speed regulation	Pitch control
Aerodynamic blades	Full feathering
Pitch system	

¹ Even though the capacity is commissioned on the above specified date (10/08/2022), the electricity generation has started on the subsequent day (11/08/2022). This similar approach has been followed for all the WTGs commissioned in phase-wise.

Principle	Independent blade pitch control
Actuation	Individual electric drive
Yaw system	
Yaw rate	0.5 degrees
Equipment details	
Transformers	160 MVA Power Transformer Voltage Rating - 220/33kV Make: Atlanda Electricals Pvt Ltd.
	250kVA Auxiliary Transformer Voltage Rating - 33kV/415V Make: Shinjitsu India Pvt Ltd.
	33kV Low Voltage Current Transformer 4000-3000/1A 33kV Feeder Current Transformer 800-400/1A Make: Vishal Transformers and Switchgears Pvt Ltd

B.1.1 Forward Action Requests

>> One FAR is raised during the validation Summary of FARs and response for the same has been provided below:

FAR	Description of FAR	Response of Project Owner
FAR #1	PD shall conduct the physical meetings or stakeholder feedback round as soon as the COVID situation eases. VVB shall confirm if the physical meeting is conducted it should be in line with Gold Standard Stakeholder Consultation and Engagement Requirements.	In line with the requirements, the Project owner had conducted the physical stakeholder feedback round. The Stakeholders were invited on 16/01/2023 and the feedback round has been conducted on 17/02/2023 at Sitac Kabini Renewables Pvt. Ltd. Chhuger-CMS, Kutch, Gujarat and received feedback from all the possible stakeholders of the project. The documents regarding that physical meeting such as Attendance list and photographs have already

		been included in the Gold Standard Stakeholder Consultation Report.
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B.2. Post-Design Certification changes

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B.2.1. Temporary deviations from the approved Monitoring & Reporting Plan, methodology or standardized baseline

>> As per Section 5.1.29 of the GS4GG Principles and Requirements (Version 1.2), the project participant applied for a Gold Standard deviation to extend the verification process, citing delays in the commissioning of the total project capacity and the approval of design review on 08/05/2023. The deviation request was approved by Gold Standard on 04/10/2024, granting an extension to complete the verification process until 31/01/2025. In line with this deviation, project participant has submitted Monitoring report, ER sheet, SDG Impact tool and verification report on 09/01/2025 which is before the 31/01/2025.

B.2.2. Corrections

>>Not applicable.

B.2.3. Changes to start date of crediting period

>> During the submission of PDD, the project has not fully commissioned yet. So, the expected date 25/04/2022 has been considered as the start date of crediting period. However, during this 1st verification, the first phase of the project has been commissioned on 11/08/2022 and this date has been considered as the start date of crediting period.

B.2.4. Permanent changes from the Design Certified monitoring plan, applied methodology or applied standardized baseline

>> Not applicable

B.2.5. Changes to project design of approved project

>> Not applicable

SECTION C. DESCRIPTION OF MONITORING SYSTEM APPLIED BY THE PROJECT

>>

The monitoring plan is developed in accordance with the modalities and procedure with project activity and is implemented for grid-connected wind energy power projects in the state of Gujarat, India. The monitoring plan, describes about the monitoring organization, parameters to be monitored, monitoring practices, quality assurance, quality control procedures, data storage and archiving. PP signed the O&M contract with the GE India Industrial Private Limited.

The authority and responsibility for registration, monitoring, measurement, reporting and reviewing of the data rests with the project participants. The following structure is proposed for data monitoring, collection, data archiving and calibration of equipment for this project activity.

The team comprises of the following members: **Organizational Structure for Monitoring.**

Responsibilities of Head- Projects: Tracking and reviewing the overall functioning and maintenance of the project activity from Head (Operations). Head (Operations) will be reporting Head (Projects).

Responsibilities of Head- Operations: Overall functioning of the project activity and Coordinating with the O & M Team for the proper functioning of Project activity. He will be reporting to Head (Projects).

Responsibilities of O & M Team: O&M team is responsible for Operations and Maintenance related issues, they are also responsible for day-to-day data collection and monitoring, ensures completeness and reliability of data (calibration of equipment).

Data measurement:

The Site In-charge will be responsible for carrying out internal auditing and QA/QC. The meter computes the net active energy (Wh) in each successive 15-minutes block and stores it in its memory along with plus/ minus sign. After deducting the import values, the net electricity generation data will be computed. Under the WRPC computation, this data will be compared with the scheduled energy data which has shared in WRLDC REA monthly statements. The deviation between these two will be accounted for the Deviation Settlement Mechanism. The DSM charges will be applied for the deviation in energy. The actual electricity data and DSM charges can be verified in weekly report of

DSM/ UI account. The actual generation data can be cross-checked with the WRPC weekly reports in DSM/ UI account². All these data have been submitted to verifier.

Data collection and archiving

As the plant is connected to a substation in the Western region of India, all data recording and computation related to the power plant are managed by the Western Regional Load Dispatch Centre (WRLDC). WRLDC oversees various operations of power plants, including energy scheduling, recording and declaring actual energy generation, and calculating Deviation Settlement Mechanism (DSM) charges. The process of data measurement, collection, and maintenance handled by WRLDC is as follows:

1. WRLDC publishes the Regional Energy Accounting (REA) statement each month on the WRPC website (https://wrpc.gov.in/menu/Regional%20Energy%20Account%20_344), which details the scheduled energy of the power plant.
2. Based on the scheduled energy, the project owner prepares an invoice and submits it to the consumer (i.e., SECI).
- 3 A meter installed at the nearby PGCIL substation records the plant's actual generation values at 15-minute intervals daily, after deducting transmission losses and net imports. This data is then sent to WRLDC.
4. Weekly, WRLDC compares the actual energy data with the scheduled data. Any difference between the two is accounted for as DSM charges. If the scheduled energy exceeds the actual energy, DSM charges are receivable; if it is less, DSM charges are payable.
5. The computed data, including actual energy, deviations, and DSM charges, is uploaded weekly to the DSM/UI account on the WRPC website (https://wrpc.gov.in/menu/DSMUI%20Account%20_342).

² The actual/ scheduled generation monitoring will be done through Western Regional Power Committee/Western Regional Load Dispatch Centre portal (WRLDC). In Inter State Transmission System (ISTS - Central Transmission Utility) connected project(s), the energy invoicing is done on the scheduled energy for the month and the settlement of the balance amount is as per the actual energy injected against scheduled energy. Deviation Settlement is payable or receivable on weekly basis depending on deviations in actual and schedule energy and DSM penalty.

6. Based on the reports available at the website, emission reductions can be calculated.

7. This entire monitoring process is exclusively managed by WRLDC and is beyond the control of the project owner.

All the main, check and standby meters of the project are found within the acceptable limits of accuracy functioning properly.

QA/QC procedures: The energy meters are owned by WRLDC. WRLDC is having the overall responsibility of grid operations of power plants connected to western region of India. The functioning of this WRLDC is in the control of PGCIL (Power Grid Corporation of India Limited). Neither the project proponent nor the site personnel have any control over it.

Emergency preparedness

The project activity will not result in any unidentified activity that can result in substantial emissions from the project activity. No need for emergency preparedness in data monitoring is visualized. In the unlikely event of failure of both Main meter & Check meter installed at PGCIL sub-station, where both the faulty meters are required to repair or replaced simultaneously, the export & import readings from Main & Check Meter installed at the inter-connection point at the project site will be used for monitoring of net electricity exported to the grid.

Personnel Training

In order to ensure a proper functioning of the project activity and a properly monitoring of emission reductions, the staff will be trained. The plant helpers will be trained in equipment operation, data recording, reports writing, operations and maintenance and emergency procedures in compliance with the monitoring plan.

Training and maintenance requirements:

Each and all site personnel are provided with proper training to meet the requirements of the operations and maintenance. This ultimately leads to creativity in problem solving. PP engaged to provide approximately 2-5 trainings per month regarding the operation and maintenance works, safety measures to be followed at the site and awareness session. For specific types of training provided at the site during this

monitoring period, please refer Table in SDG 8.5.1 in Section D.2 of the Monitoring Report.

SECTION D. DATA AND PARAMETERS

D.1. Data and parameters fixed ex ante

Relevant SDG Indicator	SDG13: Climate Action
Date/ parameter	EF _{OM,y}
Unit	tCO ₂ /MWh
Description	Operating Margin CO ₂ emission factor in year y
Source of data	Calculated from CEA database version 17.0 https://cea.nic.in/cdm-co2-baseline-database/?lang=en
Value(s) applied	0.9522 (Detail Calculation has been provided in ER Sheet)
Choice of data or Measurement methods and procedure	The data are obtained from "CO ₂ Baseline Database for Indian Power Sector" version 17.0, published by the Central Electricity Authority, Ministry of Power, Government of India.
Purpose of data	For the calculation of the Baseline Emission
Additional comment	This parameter is fixed ex-ante for the entire crediting period.

Relevant SDG Indicator	SDG13: Climate Action
Date/ parameter	EF _{BM,y}
Unit	tCO ₂ /MWh
Description	Build Margin CO ₂ emission factor in year y
Source of data	Calculated from CEA database version 17.0 https://cea.nic.in/cdm-co2-baseline-database/?lang=en
Value(s) applied	0.8653 (Detail Calculation has been provided in ER Sheet)

Choice of data or Measurement methods and procedure	The data are obtained from "CO2 Baseline Database for Indian Power Sector" version 17.0, published by the Central Electricity Authority, Ministry of Power, Government of India.
Purpose of data	For the calculation of the Baseline Emission
Additional comment	This parameter is fixed ex-ante for the entire crediting period.

Relevant SDG Indicator	SDG13: Climate Action
Date/ parameter	EF _{CM,y}
Unit	tCO ₂ /MWh
Description	Combined Margin CO ₂ emission factor in year y
Source of data	Calculated from CEA database version 17.0 https://cea.nic.in/cdm-co2-baseline-database/?lang=en
Value(s) applied	0.9305 (Detail Calculation has been provided in ER Sheet)
Choice of data or Measurement methods and procedure	The combined margin emissions factor is calculated as follows: $EF_{grid,CM,y} = EF_{grid,OM,y} * W_{OM} + EF_{grid,BM,y} * W_{BM}$ Where: EF_{grid,BM,y} = Build margin CO₂ emission factor in year y (tCO₂/MWh) EF_{grid,OM,y} = Operating margin CO₂ emission factor in year y (tCO₂/MWh) W_{OM} = Weighting of operating margin emissions factor (%) = 75% W_{BM} = Weighting of build margin emissions factor (%) = 25%
Purpose of data	For the calculation of the Baseline Emission
Additional comment	This parameter is fixed ex-ante for the entire crediting period.

D.2 Data and parameters monitored

SDG 7.2.1. Affordable and Clean energy

Relevant SDG Indicator	SDG 07
Date/ parameter	EG _{facility,y}
Unit	MWh
Description	Quantity of net electricity generation supplied by the project plant/unit to the grid during this monitoring period
Source of data	As per estimated ER sheet. The results have been obtained from the weekly report of DSM/UI account and Regional Energy Account (REA) statement issued by WRPC (Western Regional Power Committee) ³ .
Value(s) applied	1,073,798.00
Choice of data or Measurement methods and procedure	The WRLDC manages the monitoring of energy generation and scheduling for power plants, publishing monthly Regional Energy Accounting (REA) statements on the WRPC website. These statements detail scheduled energy, which project proponents use to prepare invoices for consumers. Actual generation data, recorded at 15-minute intervals by a meter at a PGCIL substation, is sent to WRLDC after accounting for transmission losses. Weekly, WRLDC compares this actual data with scheduled energy, determining any differences as Deviation Settlement Mechanism (DSM) charges, which are either receivable or payable. The computed data, including actual energy, deviations, and DSM charges, is uploaded to the WRPC website weekly. Emission reductions can also be calculated based on these reports, with the entire process being exclusively managed by WRLDC, beyond the project owner's control.
Monitoring frequency	Continuous measurement and monthly recording
QA/ QC procedures	After deducting the import values, the net actual generation will be computed and monitored by the metering system installed at the PGCIL end. The energy meters are special energy meters

³ https://wrpc.gov.in/menu/DSMUI%20Account%20_342
https://wrpc.gov.in/menu/Regional%20Energy%20Account%20_344

	which are installed at the PGCIL end. The check meter reading shall be used during the period the main metering system is not in service. The standby meter reading will be used in case of failure in main and check meter reading. The meters will be calibrated once in every 5 years by an independent testing laboratory.
Purpose of data	The Data/Parameter is required to calculate the baseline emission
Additional comment	The data will be kept for two years after the end of the crediting period or the last issuance of CERs for this project activity, whichever occurs later. In the case of the crediting period start & end dates of the project activity falls in – between the billing cycles, then for emission reduction calculations, the apportioning procedure will be applied.

Meter Calibration Details			
Sr. No	WR-2220-A	WR-2250-A	WR-2224-A
Meter type	Main meter	Check meter	Standby meter
Make	L&T	L&T	L&T
Model	ER300P Series	ER300P Series	ER300P Series
Class	0.2S	0.2S	0.2S
Date of Calibration	04/02/2022	05/02/2022	04/02/2022
Calibration Due Date	03/02/2027	04/02/2027	03/02/2027

The main meter WR-2220-A, check meter WR-2250-A and standby meter WR-2224-A are installed at the PGCIL end– 220KV Bhuj II grid substation. Both the main meter and check meter are connected to same core of CT/PT. The standby meter is connected to different CT/ PT. The main meter reading will be used for energy accounting. If there is any failure in the main meter, check meter reading will be used. If both the main meter and check meter reading are found with any discrepancies, standby meter reading will be used. The meter reading and computation will be done by WRLDC and it is not in the control of project proponent.

For each week, the main meter reading will be recorded by WRLDC and used for energy accounting. It will be uploaded along with the deviation from the scheduled energy in DSM/ UI account weekly report in the website

<https://wrpc.gov.in/menu/DSMUI%20Account%20 342>

As per the details mentioned in the PDD, the calibration of meters has been done by the independent testing laboratory and it should be done once in five years. The accuracy class of meters, feeder arrangements, metering and determination of net electricity supplied to grid and calibration interval are under purview of WRLDC and PP do not have any control on it.

SDG 8.5.1.: Decent Work and Economic Growth

Relevant SDG Indicator	SDG 08			
Date/ parameter	- Quantitative employment - Quality of employment			
Unit	- Number (Trainings) - Number (employees)			
Description	- Number of Trainings provided to employees & O&M staff - Number of project employees			
Source of data	- Training records (HSE&HR) - List of employees			
Value(s) applied	For the current monitoring period, the details of the training are given below:			
	S. No.	Date of training	Training topic	No. Of participants
	1	30-09-2022	Electrical safety awareness	8
	2	30-09-2022	Ge technical training (wind SCADA 12.0)	8
	3	08-10-2022	Environment awareness discussion	5
	4	26-11-2022	LOTO procedure & electrical service bulletin	16
	5	19-11-2022	Torquing safety awareness session	10
	6	19-11-2022	Hazard identification & risk mitigation session	10
	7	27-11-2022	GWO work at height training	3
	8	29-11-2022	Ge technical training (WTG)	10
	9	30-11-2022	Ge technical training (WTG)	10
	10	09-11-2022	Pole climbing training	11
	11	12-11-2022	Voltage detector training	17

	12	12-12-2022	33-kv feeder break down attain procedure	10
	13	31-01-2023	Hove grease gun training	14
	14	30-01-2023	CCTV operation training	07
	15	11-01-2023	Road safety	23
	16	30-01-2023	L&T meter reading taken through DMRI	11
	17	11-02-2023	Safety observation	25
	18	21-02-2023	Switchyard overview	22
	19	23-02-2023	NIFPS operation and isolation	24
	20	10-03-2023	52 nd N.S.D and importance of HSE	6
	21	22-03-2023	How to do safely line maintenance	7
	22	21-04-2023	Precaution during TRAFO testing	13
	23	26-04-2023	Brief explanation of daily activities of PSS	17
	24	29-04-2023	World safety day & incident awareness	9
	25	15-05-2023	Basic fire safety	18
	26	26-05-2023	How to isolate and normalize cap-bank	9
	27	31-05-2023	Necessary precaution requires during cap-bank charging condition	8
	28	12-06-2023	How to start dg set	10
	29	13-06-2023	Biporjoy cyclone preparedness tbt	14
	30	23-06-2023	Mock drill for snakebite	3
	31	06-07-2023	Monsoon protection of transformer	16
	32	14-07-2023	33kv line SCADA connectivity trouble shooting & ofc stringing	16
	33	05-08-2023	Basic technical knowledge	25
	34	08-08-2023	PSS & line thermography	15
	35	28-08-2023	How to start dg set	13
	36	02-09-2023	How to do feeder bay maintenance	15
	37	02-09-2023	DGR & loss work out	7
	38	13-09-2023	Fall from height mock drill	14
	39	22-09-2023	Zero harm our life saving rules	18

	40	17-10-2023	Working at height	18
	41	17-10-2023	What is the positive impact of health and safety in my everyday work	12
	42	18-10-2023	Basic fire fighting	19
	43	06-11-2023	Tbt ref to LFI sharing site (incident)	15
	44	21-11-2023	Precautions during cable laying	14
	45	30-11-2023	How to do IT TRAFO maintenance	15
	46	30-11-2023	How to apply insulation sleeve & precaution during work	15
	47	20-12-2023	How to TRAFO maintenance and paint work	17
	48	30-12-2023	33 KV line maintenance-work and precaution during line charge	17
- The total number of trainings = 48 - The total number of staffs employed for the project activity = 37 (High skilled – 21 and Semi-skilled – 16), - The income generated due to this project activity is INR 12,000 per employee per month. For total monitoring period, the income generation = INR 204,000 per employee. Thus, the project has a positive impact on the parameter.				
Measurement methods and procedures	- Training Attendance sheets. - Employee Records.			
Monitoring frequency	Once in a year			
QA/ QC procedures	The number of persons employed is mentioned in the plant register, which is cross checked with daily attendance register.			
Purpose of data	To monitor the contribution to SDG 8 (Promote sustained, inclusive and sustainable economic growth, full and productive employment and decent work for all) and safeguarding principle 6.1 (Labor rights) and safeguarding principle 2			
Additional comment	-			

SDG 13.2.1: Climate action

Relevant SDG Indicator	SDG 13
Date/ parameter	ER _y
Unit	tCO ₂
Description	CO ₂ emission reduction due to implementation of project activity.
Source of data	Calculated as per TOOL07 :“Tool to calculate the emission factor for an electricity system,”version7.0. The data such as EF _{CO2} is obtained from “CO ₂ Baseline Database for Indian Power Sector” version 17.0, published by the Central Electricity Authority, Ministry of Power, Government of India and EG _{facility,y} is sourced from the REA statement published by the WRLDC.
Value(s) applied	999,168 tCO _{2e}
Measurement methods and procedures	Calculated from CEA database and Energy Generation
Monitoring frequency	The energy meters will be calibrated once in every 5 years by an independent testing laboratory. The calibration of the meters will be done once in five years as per CEA notification. The accuracy class of meters, feeder arrangements, metering and determination of net electricity supplied to grid and calibration interval are under purview of state electricity board and PP do not have any control on it.
QA/ QC procedures	Calibration records are maintained at the O&M site office.
Purpose of data	Calculation of baseline emissions
Additional comment	The data will be archived for crediting +2 years.

Safeguarding principle 9.5

Date/ parameter	Hazardous and Non-hazardous Waste
Unit	Kg
Description	Collection, storage and Disposal of Hazardous waste viz. waste oil, used oil, used grease, wastes or residues containing oil, empty barrels/ containers/ liners waste etc. .
Source of data	Delivery challan for waste disposal

Value(s) applied	Sl. No	Type of waste	Quantity (Kg)
	1	Waste grease, oil, pain sludge	1,045
	2	Oil & Grease-soaked gloves/ waste cotton	1,850
	3	Metal wastes and empty cans	180
Measurement methods and procedures	Manual		
Monitoring frequency	Annually		
QA/ QC procedures	The waste collected and stored in paved and enclosed area with secondary containment and subsequently sold to authorized recyclers/ Transfer storage disposal facility (TSDF) in compliance with Pollution Control Board norms.		
Purpose of data	Analysis of safeguarding principle		
Additional comment	The data will be archived for crediting +2 years.		

D.3. Comparison of monitored parameters with last monitoring period

Data/Parameter	Value obtained in this monitoring period	Value obtained last monitoring period
Not applicable	Not applicable	Not applicable

D.4. Implementation of sampling plan

>>

Not applicable.

SECTION E. CALCULATION OF SDG IMPACTS

E.1. Calculation of baseline value or estimation of baseline situation of each SDG Impact

>>

For SDG 7 and SDG 13

As per the approved consolidated Methodology ACM0002 (Version 20.0, EB 105, Annex 03), Emission reductions are calculated as follows:

$$ER_y = BE_y - PE_y$$

Where:

ER_y = Emission reductions in year y (t CO₂e/yr)

BE_y = Baseline emissions in year y (t CO₂e/yr)

PE_y = Project emissions in year y (t CO₂e/yr)

Baseline Emissions for the amount of electricity supplied by project activity, BE_y is calculated as

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

Year	Vintage	Net Quantity of Electricity Exported to the Grid (MWh)	Grid Emission factor (tCO ₂ /MWh)	Emission reduction (tCO ₂)
2022	11/08/2022 to 31/12/2022	164,583.00	0.9305	153,144
2023	01/01/2023 to 31/12/2023	909,215.00	0.9305	846,024
Total	11/08/2022 to 31/12/2023	1,073,798.00	0.9305	999,168

Where:

BE_y = Baseline emissions in year y (t CO₂/yr).

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

$EF_{grid,CM,y}$ = Combined margin CO₂ emission factor for grid connected power generation in year y calculated using the latest version of the TOOL07: "Tool to calculate the emission factor for an electricity system" (t CO₂/MWh) = 0.9305 t CO₂/MWh

For SDG 8

Employment opportunities created for 37 persons in total and 48 trainings were conducted during the current monitoring period.

E.2. Calculation of project value or estimation of project situation of each SDG Impact

>>

SDG goal	Methodological choices/ approaches for estimating the SDG outcome
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SDG 7 –Affordable and Clean Energy: Ensure access to affordable, reliable, sustainable and modern energy for all	Measurement Method: - Electricity produced and supplied to the grid is monitored through energy meter. Net electricity is calculated by WRLDC and provided in the weekly DSM/ UI report or equivalent. The other parameters used for net electricity supplied to grid are mentioned in monitoring plan. QA/QC Process: This parameter is monitored monthly and value of parameter cross checked with weekly DSM/ UI reports.
SDG 8 – Decent Work and Economic Growth: Promote inclusive and sustainable economic growth, employment and decent work for all	Measurement Method: - Trainings and employment generation is monitored through training records, staff register or letter from O&M contractor for training and employment details or HSE/HR records. QA/QC Process: This parameter is based on records, data and no any QA/QC procedure required.
SDG 13 – Climate Action: Take urgent action to combat climate change and its impacts	Measurement Method: - The emission reduction parameter is calculated as product of net electricity supplied to grid and grid emission factor. The grid emission factor is ex-ante parameter and determined based on data obtained from "CO₂ Baseline Database for Indian Power Sector" version 17, published by the Central Electricity Authority, Ministry of Power, Government of India. This is in line with "Tool to calculate the emission factor for an electricity system, version 7". The emission reductions are calculated as per PDD and as per methodology requirement. QA/QC Process: This parameter is calculated, and no any QA/QC procedure required.

E.3. Calculation of leakage

>> No leakage emissions are applicable.

E.4. Calculation of net benefits or direct calculation for each SDG Impact

SDG	SDG Impact	Baseline estimate	Project estimate	Net benefit
7	MWh of renewable energy generated	0	1,073,798.00	1,073,798.00
8	Decent Work and Economic Growth	0	48 Trainings 37 Employees INR 204,000.00 (income generation/per employee)	48 Trainings 37 Employees INR 204,000.00 (income generation/per employee)
13	Emission Reduction (tCO ₂ e)	999,168 tCO ₂ e	0	999,168 tCO ₂ e

E.5. Comparison of actual SDG Impacts with estimates in approved PDD

SDG	Values estimated in ex ante calculation of approved PDD for this monitoring period	Actual values ⁴ achieved during this monitoring period
7	977,489 MWh/ Year (365 days) 1,183,770.74 MWh (508 days)	1,073,798.00 MWh
8	1 training/ year 1.39 (508 days) 60 jobs (365 days) 83.5 jobs (508 days) Income INR 97,820/ year per employee INR 135,876 per employee (508 days)	48 trainings 37 jobs INR 204,000.00 per employee (income generation)
13	909,553 tCO ₂ e/ year	

⁴ Whenever emission reductions are capped, both the original and capped values used for calculations must be transparently reported. Use brackets to denote original values.

1,101,498.05 tCO₂e (508 days)

999,168 tCO₂e

E.5.1. Explanation of calculation of value estimated ex ante calculation of approved PDD for this monitoring period.

>> SDG 7: Affordable and Clean Energy -

As per PDD, 977,489.00 MWh is estimated annually. Phase wise estimated generation are as follows.

From (Commissioning date)	To	No of days	Capacity (MW)	Estimated Electricity Generation as per Registered GS PDD (MWh)
11-08-2022	31-12-2023	508	94.5	425,140.76
18-08-2022	31-12-2023	501	21.6	95,836.01
23-08-2022	31-12-2023	496	18.9	83,019.61
24-08-2022	31-12-2023	495	13.5	59,180.17
01-09-2022	31-12-2023	487	10.8	46,578.98
05-09-2022	31-12-2023	483	13.5	57,745.50
20-09-2022	31-12-2023	468	35.1	145,475.60
23-09-2022	31-12-2023	465	10.8	44,474.79
10-10-2022	31-12-2023	448	10.8	42,848.83
21-11-2022	31-12-2023	406	13.5	48,539.69
05-12-2022	31-12-2023	392	13.5	46,865.91
29-05-2023	31-12-2023	217	29.7	57,075.98
30-05-2023	31-12-2023	216	16.2	30,988.89
TOTAL				1,183,770.74

SDG 8: Decent Work and Economic Growth – The Annual estimation has been considered for SDG i.e. 60 persons employment and minimum 01 training per year.

SDG13: Climate Action - The project is estimated to reduce emissions of 1,101,498.05 tCO₂e for a monitoring period of 508 days by considering the annual emission reduction estimation of 909,553 tCO₂e as per the registered PDD.

The detailed Emission Reduction calculation has been provided on the ER sheet.

E.6. Remarks on increase in achieved SDG Impacts from estimated value in approved PDD

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Description	Emission Reduction (tCO₂e)	Electricity generation (MWh)
Total annual estimated values as per PDD	909,553.00	977,489.00
Total Estimated values for monitoring days (508 days)	1,101,498.05	1,183,770.74
Actual Values during the monitoring period (tCO ₂ e/year)	999,168.00	1,073,798.00
Monitoring Period Start Date	11-08-2022	
Monitoring Period End Date	31-12-2023	
Total Days	508	
Variation in the emission reduction	-9.29%	

The actual achieved emission reduction during this monitoring period is 9.29% lesser than the estimated emission reduction in the PDD and is within the sensitivity range. The fluctuation in the electricity generation depends on the climatic factors such as wind energy availability and it is not in the control of project proponent.

SECTION F. SAFEGUARDS REPORTING

Data / Parameter	Principle 2. Gender Equality
Mitigation Measures followed	The project proponent created job opportunities for the people at the project site during the monitoring period. In this monitoring period 37 employees were hired at the project site. Refer section D.2. for employment creation during this monitoring period.
Source	List of employees
Additional comments	The project proponent further contributes in creating job opportunities in future throughout the project lifetime.

Data / Parameter	Principle 6.1 Labor Rights
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Mitigation Measures followed	The employees were provided with trainings on Environment, Health and Safety at the project site by the project proponent. In this way, the accidents or injuries can be avoided at the project site. In this monitoring period, project proponent conducted 48 trainings in EHS for employee's safety and to avoid the accidents. Refer section D.2 for details.
Source	Attendance sheet of EHS trainings conducted at site
Additional comments	All the mitigation measures are implemented at the site. The EHS trainings will be conducted throughout the project lifetime for the employee's health concerns.

Data / Parameter	Principle 9.5 Hazardous and Non-hazardous Waste
Mitigation Measures followed	The waste generated at the project site such as waste oil, used oil, used grease, wastes or residues containing oil, empty barrels/ containers/ liners wastes or residues Containing oils were collected and disposed to the licensed vendor. Refer section D.2. for quantity of waste disposed to the vendor.
Source	Waste disposal records
Additional comments	The hazardous and non-hazardous wastes generated at the site were collected and segregated and disposed to the licensed vendor. It will be followed throughout the project lifetime.

SECTION G. STAKEHOLDER INPUTS AND LEGAL DISPUTES

G.1. List all Inputs and Grievances which have been received via the Continuous Input and Grievance Mechanism together with their respective responses/mitigations.

>> The grievance mechanism was a part of PP's regular procedure which was announced to stakeholder during the stakeholder consultation conducted at the project site. No input or grievances received from any stakeholder during the monitoring period.

G.2. Report on any stakeholder mitigations that were agreed to be monitored.

>> Not applicable. There were no grievances received from the stakeholders during the current monitoring period. Therefore, the Project participant has not updated any mitigations to be added in Monitoring plan.

G.3. Provide details of any legal contest that has arisen with the project during the monitoring period

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Project is in compliance with India's legal, environmental, ecological and social regulations. Hence, not applicable.

Revision History

Version	Date	Remarks
1.1	14 October 2020	Hyperlinked section summary to enable quick access to key sections Improved clarity on Key Project Information Section for POA monitoring Forward action request section Improved Clarity on SDG contribution/SDG Impact term used throughout Clarity on safeguard reporting Clarity on design changes Leakage section added for VER/CER projects Addition of Comparison of monitored parameters with last monitoring period Provision of an accompanying Guide to help the user understand detailed rules and requirements
1.0	10 July 2017	Initial adoption