



**Validation report form for inclusion of component
project activities
(Version 03.0)**

BASIC INFORMATION

Title and UNFCCC reference number of the programme of activities (PoA)	The Project of CCC program of Activities (PoA) for Distribution of Improved Cookstoves (ICS) in Developing South and Southeast Asia Countries (Myanmar) UNFCCC Ref: 10471	
Version number of the validation report	02	
Completion date of the validation report	08/04/2020	
Version numbers of the PoA-DD to which this report applies	06.10	
Title and reference number of each CPAs to be included	CPA Ref. no.	Title
	CPA 011	CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 011
	CPA 012	CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 012
	CPA 013	CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 013
	CPA 014	CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 014
	CPA 015	CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 015
	CPA 016	CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 016
	CPA 017	CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 017
	CPA 018	CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 018
	CPA 019	CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 019
	CPA 020	CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 020
	CPA 021	CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 021
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	CPA 023	CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 023
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	CPA 026	CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 026

	CPA 027	CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 027
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	CPA 031	CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 031
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	CPA 050	CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 050
	CPA 051	CCC PoA for distribution of ICS in

		developing countries (Myanmar): CPA 051
	CPA 052	CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 052
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	CPA 056	CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 056
	CPA 057	CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 057
	CPA 058	CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 058
Applied methodologies and standardized baselines for each CPA	CPA Ref. no.	Applied methodologies and standardized baselines
	CPA 011	AMS II.G "Energy efficiency measures in thermal applications of non-renewable biomass" Version-09 Reference: EB 97 Annex-11, valid from 01/11/2017
	CPA 012	AMS II.G "Energy efficiency measures in thermal applications of non-renewable biomass" Version-09 Reference: EB 97 Annex-11, valid from 01/11/2017
	CPA 013	AMS II.G "Energy efficiency measures in thermal applications of non-renewable biomass" Version-09 Reference: EB 97 Annex-11, valid from 01/11/2017
	CPA 014	AMS II.G "Energy efficiency measures in thermal applications of non-renewable biomass" Version-09 Reference: EB 97 Annex-11, valid from 01/11/2017
	CPA 015	AMS II.G "Energy efficiency measures in thermal applications of non-renewable biomass" Version-09 Reference: EB 97 Annex-11, valid from 01/11/2017
	CPA 016	AMS II.G "Energy efficiency measures in thermal applications of non-renewable biomass" Version-09 Reference: EB 97 Annex-11, valid from 01/11/2017
	CPA 017	AMS II.G "Energy efficiency measures in thermal applications of non-renewable biomass" Version-09

		Reference: EB 97 Annex-11, valid from 01/11/2017
	CPA 018	AMS II.G "Energy efficiency measures in thermal applications of non-renewable biomass" Version-09 Reference: EB 97 Annex-11, valid from 01/11/2017
	CPA 019	AMS II.G "Energy efficiency measures in thermal applications of non-renewable biomass" Version-09 Reference: EB 97 Annex-11, valid from 01/11/2017
	CPA 020	AMS II.G "Energy efficiency measures in thermal applications of non-renewable biomass" Version-09 Reference: EB 97 Annex-11, valid from 01/11/2017
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	CPA 024	AMS II.G "Energy efficiency measures in thermal applications of non-renewable biomass" Version-09 Reference: EB 97 Annex-11, valid from 01/11/2017
	CPA 025	AMS II.G "Energy efficiency measures in thermal applications of non-renewable biomass" Version-09 Reference: EB 97 Annex-11, valid from 01/11/2017
	CPA 026	AMS II.G "Energy efficiency measures in thermal applications of non-renewable biomass" Version-09 Reference: EB 97 Annex-11, valid from 01/11/2017
	CPA 027	AMS II.G "Energy efficiency measures in thermal applications of non-renewable biomass" Version-09 Reference: EB 97 Annex-11, valid from

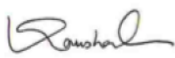
		01/11/2017
	CPA 028	AMS II.G "Energy efficiency measures in thermal applications of non-renewable biomass" Version-09 Reference: EB 97 Annex-11, valid from 01/11/2017
	CPA 029	AMS II.G "Energy efficiency measures in thermal applications of non-renewable biomass" Version-09 Reference: EB 97 Annex-11, valid from 01/11/2017
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	CPA 047	AMS II.G "Energy efficiency measures in thermal applications of non-renewable biomass" Version-09 Reference: EB 97 Annex-11, valid from 01/11/2017
	CPA 048	AMS II.G "Energy efficiency measures in

		thermal applications of non-renewable biomass" Version-09 Reference: EB 97 Annex-11, valid from 01/11/2017
	CPA 049	AMS II.G "Energy efficiency measures in thermal applications of non-renewable biomass" Version-09 Reference: EB 97 Annex-11, valid from 01/11/2017
	CPA 050	AMS II.G "Energy efficiency measures in thermal applications of non-renewable biomass" Version-09 Reference: EB 97 Annex-11, valid from 01/11/2017
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	CPA 053	AMS II.G "Energy efficiency measures in thermal applications of non-renewable biomass" Version-09 Reference: EB 97 Annex-11, valid from 01/11/2017
	CPA 054	AMS II.G "Energy efficiency measures in thermal applications of non-renewable biomass" Version-09 Reference: EB 97 Annex-11, valid from 01/11/2017
	CPA 055	AMS II.G "Energy efficiency measures in thermal applications of non-renewable biomass" Version-09 Reference: EB 97 Annex-11, valid from 01/11/2017
	CPA 056	AMS II.G "Energy efficiency measures in thermal applications of non-renewable biomass" Version-09 Reference: EB 97 Annex-11, valid from 01/11/2017
	CPA 057	AMS II.G "Energy efficiency measures in thermal applications of non-renewable biomass" Version-09 Reference: EB 97 Annex-11, valid from 01/11/2017
	CPA 058	AMS II.G "Energy efficiency measures in thermal applications of non-renewable biomass" Version-09

		Reference: EB 97 Annex-11, valid from 01/11/2017
Sectoral scopes for each CPA	CPA Ref. no.	Sectoral scopes (indicate mandatory and conditional sectoral scopes)
	CPA 011	03- Energy Demand
	CPA 012	03- Energy Demand
	CPA 013	03- Energy Demand
	CPA 014	03- Energy Demand
	CPA 015	03- Energy Demand
	CPA 016	03- Energy Demand
	CPA 017	03- Energy Demand
	CPA 018	03- Energy Demand
	CPA 019	03- Energy Demand
	CPA 020	03- Energy Demand
	CPA 021	03- Energy Demand
	CPA 022	03- Energy Demand
	CPA 023	03- Energy Demand
	CPA 024	03- Energy Demand
	CPA 025	03- Energy Demand
	CPA 026	03- Energy Demand
	CPA 027	03- Energy Demand
	CPA 028	03- Energy Demand
	CPA 029	03- Energy Demand
	CPA 030	03- Energy Demand
	CPA 031	03- Energy Demand
	CPA 032	03- Energy Demand
	CPA 033	03- Energy Demand
	CPA 034	03- Energy Demand
	CPA 035	03- Energy Demand
	CPA 036	03- Energy Demand
	CPA 037	03- Energy Demand
	CPA 038	03- Energy Demand
	CPA 039	03- Energy Demand
	CPA 040	03- Energy Demand
	CPA 041	03- Energy Demand
	CPA 042	03- Energy Demand
	CPA 043	03- Energy Demand
	CPA 044	03- Energy Demand
	CPA 045	03- Energy Demand
	CPA 046	03- Energy Demand
	CPA 047	03- Energy Demand

	CPA 048	03- Energy Demand
	CPA 049	03- Energy Demand
	CPA 050	03- Energy Demand
	CPA 051	03- Energy Demand
	CPA 052	03- Energy Demand
	CPA 053	03- Energy Demand
	CPA 054	03- Energy Demand
	CPA 055	03- Energy Demand
	CPA 056	03- Energy Demand
	CPA 057	03- Energy Demand
	CPA 058	03- Energy Demand
Coordinating/managing entity (CME)	Climate Change Center	
Host Parties	The Republic of the Union of Myanmar	
Estimated amount of annual average greenhouse gas (GHG) emission reductions or GHG removals by sinks in the crediting period (tCO₂e), per CPA	CPA Ref. no.	tCO₂e
	CPA 011	21,656
	CPA 012	21,656
	CPA 013	21,656
	CPA 014	21,656
	CPA 015	21,656
	CPA 016	21,656
	CPA 017	21,656
	CPA 018	21,656
	CPA 019	21,656
	CPA 020	21,656
	CPA 021	21,656
	CPA 022	21,656
	CPA 023	21,656
	CPA 024	21,656
	CPA 025	21,656
	CPA 026	21,656
	CPA 027	21,656
	CPA 028	21,656
	CPA 029	21,656
	CPA 030	21,656
	CPA 031	21,656
	CPA 032	21,656
	CPA 033	21,656
	CPA 034	21,656
	CPA 035	21,656

	CPA 036	21,656
	CPA 037	21,656
	CPA 038	21,656
	CPA 039	21,656
	CPA 040	21,656
	CPA 041	21,656
	CPA 042	21,656
	CPA 043	21,656
	CPA 044	21,656
	CPA 045	21,656
	CPA 046	21,656
	CPA 047	21,656
	CPA 048	21,656
	CPA 049	21,656
	CPA 050	21,656
	CPA 051	21,656
	CPA 052	21,656
	CPA 053	21,656
	CPA 054	21,656
	CPA 055	21,656
	CPA 056	21,656
	CPA 057	21,656
	CPA 058	21,656
Name and UNFCCC reference number of the DOE	Name: KBS Certification Services Pvt. Ltd. UNFCCC reference number: E-0051	
Name, position and signature of the approver of the validation report	 Kaushal Goyal Managing Director	

SECTION A. Executive summary

>> Climate Change Center (CME) has commissioned KBS to perform the validation of the proposed 48 CPA Inclusions (from CPA 011 to CPA 058):

PoA Title:	The Project of CCC program of Activities (PoA) for Distribution of Improved Cookstoves (ICS) in Developing South and Southeast Asia Countries (Myanmar)
CPAs Titles:	<ol style="list-style-type: none"> 1. CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 011 2. CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 012 3. CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 013 4. CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 014 5. CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 015 6. CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 016 7. CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 017 8. CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 018 9. CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 019 10. CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 020 11. CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 021 12. CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 022 13. CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 023 14. CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 024 15. CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 025 16. CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 026 17. CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 027 18. CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 028 19. CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 029 20. CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 030 21. CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 031 22. CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 032 23. CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 033 24. CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 034 25. CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 035 26. CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 036 27. CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 037 28. CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 038 29. CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 039 30. CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 040 31. CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 041 32. CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 042 33. CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 043 34. CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 044 35. CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 045 36. CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 046 37. CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 047 38. CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 048 39. CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 049 40. CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 050 41. CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 051 42. CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 052 43. CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 053 44. CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 054 45. CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 055 46. CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 056 47. CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 057 48. CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 058
Methodology Applied:	AMS II.G "Energy efficiency measures in thermal applications of non-renewable biomass" Version-09 Reference: EB 97 Annex-11, valid from 01/11/2017
Sectoral scopes:	03- Energy Demand

General description of CPAs:

The CPAs (48 CPAs: CPA 011 to CPA 058) involves installation of energy efficient biomass based Improved Cooking Stoves (ICSs) in the households located within Republic of the Union of Myanmar (Myanmar).

Implementation of each CPA will replace the traditional three-stone cookstoves with the ICSs. An improved cookstove (ICS) called E-FREE Cook Stoves are distributed to the local households in replacement of the traditional firewood stoves under all the 48 CPAs. The ICS is designed to provide an enclosure for the fire to reduce loss of radiant heat, protecting it against wind and increase heat transfer, ultimately reducing the use of non-renewable biomass (i.e. fuel wood). Improvement in efficiency is achieved by adjusting the dimensions of the combustion chamber and ensuring effective airflow.

Myanmar Ceramic Society (MCS) is the manufacturer of the E-FREE Cook Stoves, where the manufacturing facilities are located in each project region. In order to distinguish, track and monitor ICSs in the CPA, all ICSs are given a unique serial number.

The estimated annual emission reduction from each CPA will be 21,656 tCO₂e. These CPAs are supported by SK Group of the Republic of Korea.

The CPAs will be implemented in several villages and households in the region of Myanmar. Below table summarizes the location of the CPAs along with the geographic coordinates:

CPA Ref No.	Region	District	Township	Geographic coordinates
011	Ayeyarwaddy	Patheingyi	Patheingyi	16°47'04.2"N 94°43'55.0"E
012	Ayeyarwaddy	Patheingyi	Kyongpyaw	17°18'14.7"N 95°11'43.1"E
013	Ayeyarwaddy	Patheingyi	Kyaunggon Yaekyi	17°20'41.4"N 95°06'56.2"E
014	Ayeyarwaddy	Patheingyi	Nga Pu Taw	16°32'28.9"N 94°41'31.6"E
015	Ayeyarwaddy	Patheingyi	Nga Pu Taw Kangyidaunt	16°32'28.9"N 94°41'31.6"E
016	Ayeyarwaddy	Patheingyi Maubin	Kangyidaunt Pantanaw	16°56'07.8"N 94°53'50.0"E
017	Ayeyarwaddy	Maubin	Maubin	16°43'52.1"N 95°38'53.8"E
018	Ayeyarwaddy	Maubin	Maubin Nyaungdon	16°43'52.1"N 95°38'53.8"E
019	Ayeyarwaddy	Maubin Hinthada	Nyaungdon Danubyu Zalun	17°15'36.5"N 95°35'10.5"E
020	Ayeyarwaddy	Hinthada	Zalun Lemyethna	17°28'40.5"N 95°33'03.0"E
021	Ayeyarwaddy	Hinthada	Ingapu	17°48'27.1"N 95°16'06.8"E
022	Ayeyarwaddy	Hinthada	Ingapu Myanaung Kyangin	18°14'56.5"N 95°19'50.0"E
023	Ayeyarwaddy	Hinthada	Kyangin Hinthada	18°19'57.4"N 95°14'54.6"E
024	Ayeyarwaddy Yangon	Hinthada Southern Yangon Northern Yangon	Hinthada Thonekwa Khayan Thanlyin Kyauktan Tadar Hlegu Taikgyi	17°38'38.1"N 95°26'47.9"E, Ayeyarwaddy Region and 16°45'44.9"N 96°31'53.6"E, Yangon Region

CDM-CPA-VAL-FORM

025	Yangon	Southern Yangon	Twantay	16°42'37.4"N 95°55'36.0"E
			Kawhmu	
			Kungyangon	
026	Yangon	Northern Yangon	Taik kyi	17°18'59.3"N 95°58'20.5"E, Yangon Region and 17°19'51.2"N 96°30'46.2"E, Bago region
	Bago	Bago	Bago	
027	Bago	Bago	Bago	17°19'51.2"N 96°30'46.2"E
			Thatnatpin	
			Kawa	
028	Bago	Bago	Kawa	17°05'20.2"N 96°27'14.5"E
			Waw	
029	Bago	Bago	Waw	17°29'00.6"N 96°40'59.9"E
			Dike-U	
			Nyaungglaypin	
			Shwekyin	
030	Bago	Bago	Shwegyin	17°55'41.0"N 96°52'37.9"E
		kyauktaga	kyauktaga	
031	Bago	Taungoo	Taungoo	19°09'24.5"N 96°20'59.2"E
		Taungoo	Taungoo	
032	Bago	Taungoo	Yedashe	19°09'24.5"N 96°20'59.2"E
			Oktwin	
			Phyu	
			Kyaukkyi	
033	Bago	Taungoo	Kyaukkyi	18°49'01.7"N 95°14'42.9"E
		Pyay	Pyay	
		Shwedaung	Shwedaung	
034	Bago	Pyay	Shwedaung	18°42'57.9"N 95°13'08.6"E, Bago Region and 17°18'47.7"N 97°00'42.6"E, Mon Region.
			Paungde	
			Padaung	
	Mon	Thadon	Kyaikhto	
			Thaton	
			Belin	
035	Mon	Mawlamyaing	Mawlamyaing	15°58'02.2"N 97°43'57.0"E
			Thanbyuzayat	
			Kyaikmaraw	
			Ye	
036	Mon	Mawlamyaing	Ye	15°15'13.6"N 97°51'09.9"E, Mon Region and 20°07'55.9"N 96°12'25.2"E, Nay Pyi Taw Region
	Nay Pyi Taw	Oattayathiri	Tatkon	
		Dekhinathiri	Lewe	
037	Shan	Taunggyi	Taunggyi	20°47'00.2"N 97°01'52.0"E
			Nyaungshwe	
			Pindaya	
			Kalaw	
			Ywangan	
			Lawksawk	
038	Shan	Taunggyi	Lawksawk	20°07'23.0"N 96°47'00.9"E
			Pinlaung	
			Pekon	
			Hsihseng	

CDM-CPA-VAL-FORM

039	Shan	Taunggyi	Hsihseng	20°55'36.2"N 97°33'46.1"E
			Hopong	
		Loilem	Loilem	
			Namsang	
040	Ayeyarwaddy	Myaungmya	Myaungmya	16°35'37.1"N 94°55'11.6"E
041	Ayeyarwaddy	Myaungmya	Myaungmya	16°53'44.3"N 95°11'01.3"E
			Einme	
			Wakema	
042	Ayeyarwaddy	Myaungmya	Wakema	16°36'03.6"N 95°10'14.3"E
043	Ayeyarwaddy	Labutta	Labutta	16°09'06.6"N 94°45'20.8"E
044	Ayeyarwaddy	Labutta	Labutta	16°23'22.9"N
			Mawlamyainggyun	95°15'27.9"E
045	Ayeyarwaddy	Labutta	Mawlamyinegyun	16°23'41.2"N 95°15'55.1"E
046	Ayeyarwaddy	Pyapon	Pyapon	16°16'45.6"N 95°41'00.3"E
047	Ayeyarwaddy	Pyapon	Pyapon	16°24'41.4"N 95°53'10.4"E
			Dedaye	
048	Ayeyarwaddy	Pyapon	Kyaiklat	16°27'12.4"N 95°42'37.8"E
049	Ayeyarwaddy	Pyapon	Bogale	16°17'00.5"N 95°23'45.7"E
050	Ayeyarwaddy	Pyapon	Pyapon	16°16'45.6"N 95°41'00.3"E, Ayeyarwaddy Region and 18°43'04.4"N 95°09'01.5"E, Bago Region
			Bogale	
	Bago	Pyay	Padaung	
051	Bago	Pyay	Padaung	
			Paukkhaung	
052	Bago	Pyay	Paukkhaung	18°38'57.0"N 95°24'41.2"E
			Thegon	
		Thayarwaddy	Nattalin	
053	Bago	Thayarwaddy	Nattalin	18°14'26.2"N 95°39'08.0"E
			Zigon	
			Gyobingauk	
			Okpho	
054	Bago	Thayarwaddy	Okpho	18°07'50.7"N 95°40'33.7"E
			Monyo	
055	Bago	Thayarwaddy	Monyo	17°39'15.3"N 95°47'05.5"E
			Minhla	
			Letpadan	
			Thayarwaddy	
056	Shan	Loilin	Namsang	20°53'53.5"N 97°43'28.8"E
			Pinlon	
		Lashio	Tangyan	
			Mongyai	
			Lashio	
057	Shan	Lashio	Lashio	22°58'04.1"N 97°45'25.9"E
		Kyaukme	Hsipaw	
058	Shan	Kyaukme	Hsipaw	22°37'24.7"N 97°17'52.8"E
			Kyaukme	

			Nawngkhio	
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Scope of Validation, Validation Process and Conclusion:

The scope of the validation is defined as an independent and objective review of the CPA design documents, the project's baseline study and monitoring plan and other relevant documents. The information in these documents is reviewed against the latest version of CDM Validation and Verification Standard, Project Cycle Procedure and Project Standard, Kyoto Protocol requirements and UNFCCC rules.

The report is based on the assessment of the CPA design document, PoA design document, PoA validation report, application of standard auditing techniques including but not limited to desk review, follow up actions (e.g., electronic (telephone/skype, video or e-mail interviews) and also the review of the applicable approved methodological and relevant tools, guidance and CDM decisions.

The review of the CPA design documentation and the subsequent follow-up interviews have provided KBS with sufficient evidence to determine the project's fulfilment of all the stated criteria. In our opinion, the project meets all applicable UNFCCC requirements for the CDM.

SECTION B. Validation team, technical reviewer and approver**B.1. Validation team member**

No.	Role	Type of resource	Last name	First name	Affiliation (e.g. name of central or other office of DOE or outsourced entity)	Involvement in			
						Desk/document review	On-site inspection	Interviews	Validation findings
1.	Team Leader & Technical Expert (3.1)	IR	Sharma	Chetan Swaroop	Central office	✓		✓	✓
2.	Technical Expert (3.1)	IR	Badaya	Rohit	Central office	✓		✓	✓
3.	Validator	IR	Dey	Deboshmita	Central office	✓			✓
4.	Validator	IR	Sharma	Shikha	Central office	✓			✓
5.	Local Expert	EI	Han	Zaw Zaw	Central office	✓		✓	

B.2. Technical reviewer and approver of the validation report

No.	Role	Type of resource	Last name	First name	Affiliation (e.g. name of central or other office of DOE or outsourced entity)
1.	Technical reviewer (3.1)	IR	Kandari	Sanjay	Central Office
2.	Manager Technical & Certification	IR	Kandari	Sanjay	Central Office
3.	Authorizer	IR	Goyal	Kaushal	Central Office

SECTION C. Means of validation**C.1. Desk/document review**

>> The validation is performed primarily as a document review of the CPA Design Document version 01, dated 30/01/2020 for CPA#011 to CPA#058 and the CPA Design Document version 1.1 (final), dated 30/03/2020 for all the 48 CPAs /01/. The assessment is performed by a validation team using a validation protocol. The cross checks between information provided in the CPA-DDs and information from sources

other than those used, if available, the validation team's sectoral or local expertise and, if necessary, independent background investigations.

In particular, the project's baseline, the monitoring plan (MP) and the project's compliance with relevant UNFCCC and host country criteria are validated in order to confirm that the project design as documented is sound and reasonable and meets the stated requirements and identified criteria. The validation is seen as necessary to provide assurance to stakeholders of the quality of the project and its intended generation of certified emission reduction (CER).

UNFCCC criteria refers to the Kyoto Protocol criteria and the CDM rules and modalities and related decisions by the COP/MOP and the CDM Executive Board.

C.2. On-site inspection

As a result of the COVID-19 pandemic, taking into account the rules of relevant national and local authorities (local to the DOE offices as well as to locality of the site visits), World Health Organization (WHO) recommendations, policies of the DOE and other relevant travel restrictions and guidance (for example, a requirement to self-isolate upon return from specific countries), the DOE has skipped the on-site visit. However as per the CDM EB, the DOE may use other standard auditing techniques for validation or verification as referred to in sections 7.1.3 and 10.1.3 of the VVS-PoA/15/.

As per para 184 of CDM validation and verification standard for programmes of activities version 02/15/, Validation team has used the following alternative means for its assessment and to justify that they are sufficient for the purpose of validation of 48 CPAs (CPA 011 to CPA 058). Along with desk review, audit team has conducted remote audit interview corresponding to 48 CPAs (CPA 011 to CPA 058) as follows:

- A complete desk review of the PoA-DD, submitted CPA-DDs (initial and final versions) of all the 48 CPAs, as well as all applicable country legal requirement and supportive evidences have been checked by the validation team.
- Validation team has performed skype interview with Climate Change Center (CME), Ministry of Agriculture, Livestock and Irrigation (CPA implementor), Myanmar Ceramic Society (ICS manufacturer) in order to check implementation, current situation, management system of the CPAs, project technology, location, training provided, start date etc.
- Validation team has performed telephonic interview with randomly selected Local stakeholders to check the Local stakeholder consultation process.
- Interview questions were filled as per Validation team interview checklist and also videos were captured to check implementation of the CPAs, project technology, baseline of CPAs etc. Total 25 ICS users were inspected through captured video and interviewed in order to assess the baseline appliance and usage of cooking stoves in the baseline and project case for CPA 011 to CPA 058.
- Cross-check evaluation, for information received from interviews, under the scope of all information and references provided in CPA-DDs and supporting documents.

Details of interviewees, topics covered and additional information presented in the below section "C.3 Interviews"

Validation team has also checked the site visit requirements mentioned in the VVS for PoA Version 02/15/ and concluded that no-site visit is required at this stage of CPA inclusions to PoA. The justification for not conducting the on-site visit as per VVS PoA Version 02 /15/ have been mentioned below:

VVS PA Version 02/15/ Requirements	Validation team Justification
Para 29 (b) (b) Follow-up actions (e.g. on-site inspection and telephone or e-mail interviews), including: (i) Interviews with relevant stakeholders in the host country, such as personnel with knowledge of the	Validation team has done the follow-up actions by: 1. Telephonic/Skype interviews of CME, CPA Implementer, ICS Manufacturer and Local stakeholders.

project design and implementation; (ii) Cross checks between information provided by interviewed personnel (i.e. by checking sources or other interviews) to ensure that no relevant information has been omitted;	<p>2. Interview questions were filled as per Validation team interview checklist and also video were captured.</p> <p>3. Cross checks between information provided by interviewed personnel (i.e. by checking sources) to ensure that no relevant information has been omitted.</p>
<p>Para 30</p> <p>It is mandatory for the DOE to conduct an on-site inspection at validation for the proposed CDM project activity if:</p> <p>(a) Its estimated annual average of greenhouse gas (GHG) emission reductions or net anthropogenic GHG removals is more than 100,000 t CO₂ eq; or</p> <p>(b) There is pre-project information that is relevant to the requirements for registration of the project activity and may not be traceable after the registration.</p>	<p>The validation team has not considered the site visit as mandatory due to the following reasons which are in line with the VVS PoA Version 02 Requirements.</p> <ol style="list-style-type: none"> 1. For each CPA to included (out of 48 CPAs), the estimated annual average of GHG emission reductions or net anthropogenic GHG removals is 21,656 tCO₂e which is less than 100,000 t CO₂ eq. 2. Also there is no pre-project information that is relevant to the requirements for inclusion of CPAs and may not be traceable after the inclusion. 3. Lastly but not the least, the validation team had conducted a remote on-site audit via video recording interviews to crosscheck information related to baseline, project implementation and compliance of CPA 011 to CPA 058 with inclusion eligibility criteria (as applicable) via recorded videos. Total 25 ICS users were inspected through video recording and interviewed in order to assess the baseline appliance and usage of cooking stoves in the baseline and project case for CPA 011 to CPA 058. <p>Hence, for the proposed CPAs, it is not mandatory to conduct the physical on site visit is justified.</p>

Duration of on-site inspection: DD/MM/YYYY				
No.	Activity performed on-site	Site location	Date	Team member

C.3. Interviews

No.	Interviewee			Date	Subject	Team member
	Last name	First name	Affiliation			
1.	Jun	Seohee	Chief representative, Climate Change Center (CME) Myanmar office	17/03/2020	<ul style="list-style-type: none"> Approval of CPA from Host Party and approval of participation of CME(s). Emission 	Chetan Swaroop Sharma (Team Leader & Technical Expert (3.1))
2.	-	U Aye Ko Ko	Deputy Director general, Ministry of Agriculture, Livestock and Irrigation (CPA Implementer)	17/03/2020		

3.	-	Dr. Sein Mar	Deputy staff officer, Ministry of Agriculture, Livestock and Irrigation (CPA Implementer)	17/03/2020	reduction calculation • Monitoring plan • CPA source of financing • Implementation, Operation and Management of specific CPA; • PoA (Technology, Location) • Local laws and regulations in host country applicable to the project activity. • Training, • Project boundary • LSC • Double counting etc. • Baseline, eligibility criteria, start date etc. • Local stakeholder consultation, baseline fuel, baseline scenario etc.	(Skype interview)
4.	-	Thin Thin Mya	Project Manager, Myanmar Ceramic Society (ICS Manufacturer)	17/03/2020	• Technical specifications of ICS • Life time of ICS	Chetan Swaroop Sharma (Team Leader & Technical Expert (3.1))
5.	-	Dr. Myo Thant Tyn	President, Myanmar Ceramic Society (ICS Manufacturer)	17/03/2020	• Training provided to worker • Manufacturing process • Quality Assurance/Quality Control etc.	(Skype interview)
6.	-	U Kyaw Khine	Village Leader, Sin Za Lok village, Bago region	17/03/2020	Local stakeholder consultation process	Mr. Zaw Zaw Han (Telephonic calls)
7.	-	U Nang Lin	Village Leader, Pauk Kone, Yangon region	18/03/2020		
8.	-	U Myint Lwin	Village Leader, Kan U village, Nay Pyi Taw region	18/03/2020		
9.	-	U Maung Win	Village Leader, Auk Kwin Gyi, Ayeyarwaddy region	19/03/2020		
10.	-	U Myint Naing	Village Leader, Ta Nyin Chaung Village, Mon region	19/03/2020		

11.	-	Kyi Than	ICS User, Sin Za Lok village, Bago region	17/03/2020	<ul style="list-style-type: none"> Household information Project ICS details (type, serial no., date of distribution, usage activity, distribution method) Baseline cooking technology Baseline fuel type Location Transfer of ownership of CERs 	Remote Video auditing
12.	-	Nwe Mon Chit	ICS User, Sin Za Lok village, Bago region	17/03/2020		
13.	-	Su Mon Phyu	ICS User, Sin Za Lok village, Bago region	17/03/2020		
14.	-	Yu Yu Hlaing	ICS User, Sin Za Lok village, Bago region	17/03/2020		
15.	-	Phyu Phyu Win	ICS User, Sin Za Lok village, Bago	17/03/2020		
16.	-	Mya Than	ICS User, Pauk Kone, Yangon region	18/03/2020		
17.	-	San Win	ICS User, Pauk Kone, Yangon region	18/03/2020		
18.	-	Thu Zar Win	ICS User, Pauk Kone, Yangon region	18/03/2020		
19.	-	Khin Hnin Oo	ICS User, Pauk Kone, Yangon region	18/03/2020		
20.	-	Ohn Myint	ICS User, Pauk Kone, Yangon region	18/03/2020		
21.	-	Aye Aye New	ICS User, Kan U village, Nay Pyi Taw region	18/03/2020		
22.	-	Lwin	ICS User, Kan U village, Nay Pyi Taw region	18/03/2020		
23.	-	Thant Zin New	ICS User, Kan U village, Nay Pyi Taw region	18/03/2020		
24.	-	Tin Hla	ICS User, Kan U village, Nay Pyi Taw region	18/03/2020		
25.	-	Khin Wae	ICS User, Kan U village, Nay Pyi Taw region	18/03/2020		
26.	-	Nay Chi Aye	ICS User, Auk Kwin Gyi, Ayeyarwaddy region	19/03/2020		
27.	-	Phaung Pwar	ICS User, Auk Kwin Gyi, Ayeyarwaddy region	19/03/2020		
28.	-	Thea Mon Myint	ICS User, Auk Kwin Gyi, Ayeyarwaddy region	19/03/2020		
29.	-	Aye Moe	ICS User, Auk Kwin Gyi, Ayeyarwaddy region	19/03/2020		
30.	-	Nyein Ngwe	ICS User, Auk Kwin Gyi, Ayeyarwaddy region	19/03/2020		
31.	-	Myint Naing	ICS User, Ta Nyin Chaung Village, Mon region	19/03/2020		
32.	-	Pwint War Oo	ICS User, Ta Nyin Chaung Village, Mon region	19/03/2020		
33.	-	San Htay	ICS User, Ta Nyin Chaung Village, Mon region	19/03/2020		
34.	-	Thet Hnin Oo	ICS User, Ta Nyin Chaung Village, Mon region	19/03/2020		
35.	-	Nay Chi Phyo	ICS User, Ta Nyin Chaung Village, Mon region	19/03/2020		

C.4. Sampling approach

>>

As stated in section C.2 above, a remote auditing was conducted for CPA 011 to CPA 058. Sampling approach was applied during remote auditing with respect to para 29 (e) ii) of VVS for PoA version 02.0 /15/ to check the physical implementation of the CPA in line with the registered PoA /02/ and assess the baseline as stated in CPA-DDs /01/. CME has provided the sales database /08/ and random samples from the ICS list were checked. In order to meet the requirement of paragraph 24 and 25 of "Sampling and surveys for CDM project activities and programmes of activities Version 08.0 /24/, simple random sampling was applied. 25

ICS samples were checked by remote auditing and compared the observations with the information mentioned in the project sales database/08/, Baseline survey sheet /31/, CPA-DDs /01/ and other documents. Sampling approach using the Standard (Sampling and surveys for CDM project activities and programmes of activities Version 08.0) has been applied as per Table on page 13 "Sample size and acceptance number based on AQL, UQL, and producer and consumer risks.

The following approach for the same from the table in standard is chosen:

- AQL 0.5%, UQL 15%,
- Producer risk: 5%
- Consumer risk: 10%

with "1" acceptance number to arrive at the sample size from each appliance i.e. cook stoves.

The details including baseline practice, date of distribution of project ICS, type of product, Unique id of ICS, name of user and address etc. were verified and found to be consistent with the ones reported in the database and other supportive documents. No inconsistency was observed for any of the samples.

S. No.	Unique Serial No. of E-FREE cook stove checked
1.	CCC(A)-0209197
2.	CCC(A)-0323289
3.	CCC(A)-0322413
4.	CCC(A)-0322757
5.	CCC(A)-0322579
6.	CCC(A)-0021388
7.	CCC(A)-0022804
8.	CCC(A)-0022786
9.	CCC(A)-0021386
10.	CCC(A)-0022793
11.	CCC(A)-0123376
12.	CCC(A)-0123258
13.	CCC(A)-0129153
14.	CCC(A)-0123160
15.	CCC(A)-0123297
16.	CCC(A)-0249506
17.	CCC(A)-0249573
18.	CCC(A)-0249650
19.	CCC(A)-0249640
20.	CCC(A)-0249671
21.	CCC(A)-0159358
22.	CCC(A)-0159200
23.	CCC(A)-0167191
24.	CCC(A)-0162616
25.	CCC(A)-0159414

C.5. Clarification requests (CLs), corrective action requests (CARs) and forward action requests (FARs) raised

Areas of validation of compliance (SECTION D)	No. of CL	No. of CAR	No. of FAR
Titles of the CPAs and corresponding generic CPAs	00	00	00
Compliance with CPA-DD form	00	CAR 01 and CAR 03	00
General description of the CPAs	CL 01, CL 02	CAR 04	00
Application of methodologies and standardized baselines			
• Reference to methodologies and standardized baselines	00	00	00
• Project boundary, sources and GHGs	00	00	00
• Baseline scenario	00	00	00
Estimation of emission reductions or net anthropogenic removals			

• Equations and parameters applied to calculate GHG emission reductions or net anthropogenic GHG removals	00	00	00
• Data and parameters fixed ex ante	00	CAR 02	00
• Ex ante calculation of GHG emission reductions or net anthropogenic GHG removals	00	00	00
• Summary of ex ante estimates of GHG emission reductions or net anthropogenic GHG removals	00	00	00
Monitoring plan			
• Data and parameters to be monitored	00	00	00
• Description of the monitoring plan	00	00	00
Start date, crediting period type and duration	00	00	00
Environmental impacts	00	00	00
Local stakeholder consultation	CL 03	00	00
Eligibility for inclusion	00	CAR 05	00
Others (please specify)	00		00
Total	03	05	00

SECTION D. Validation findings

D.1. Proposed CPAs and corresponding generic CPAs

CPA title and reference number	Version number of the CPA-DD	Host Party	Generic CPA title, identification/reference number	Version number of the PoA-DD into which the CPA is included
CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 011	1.1	The Republic of the Union of Myanmar	Title: CCC PoA for distribution of ICS in developing countries (Myanmar): CPA # Ref. No.: Generic CPA 001	06.10
CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 012	1.1	The Republic of the Union of Myanmar	Title: CCC PoA for distribution of ICS in developing countries (Myanmar): CPA # Ref. No.: Generic CPA 001	06.10
CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 013	1.1	The Republic of the Union of Myanmar	Title: CCC PoA for distribution of ICS in developing countries (Myanmar): CPA # Ref. No.: Generic CPA 001	06.10
CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 014	1.1	The Republic of the Union of Myanmar	Title: CCC PoA for distribution of ICS in developing countries (Myanmar): CPA # Ref. No.: Generic CPA 001	06.10
CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 015	1.1	The Republic of the Union of Myanmar	Title: CCC PoA for distribution of ICS in developing countries (Myanmar): CPA # Ref. No.: Generic CPA 001	06.10

CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 016	1.1	The Republic of the Union of Myanmar	Title: CCC PoA for distribution of ICS in developing countries (Myanmar): CPA # Ref. No.: Generic CPA 001	06.10
CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 017	1.1	The Republic of the Union of Myanmar	Title: CCC PoA for distribution of ICS in developing countries (Myanmar): CPA # Ref. No.: Generic CPA 001	06.10
CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 018	1.1	The Republic of the Union of Myanmar	Title: CCC PoA for distribution of ICS in developing countries (Myanmar): CPA # Ref. No.: Generic CPA 001	06.10
CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 019	1.1	The Republic of the Union of Myanmar	Title: CCC PoA for distribution of ICS in developing countries (Myanmar): CPA # Ref. No.: Generic CPA 001	06.10
CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 020	1.1	The Republic of the Union of Myanmar	Title: CCC PoA for distribution of ICS in developing countries (Myanmar): CPA # Ref. No.: Generic CPA 001	06.10
CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 021	1.1	The Republic of the Union of Myanmar	Title: CCC PoA for distribution of ICS in developing countries (Myanmar): CPA # Ref. No.: Generic CPA 001	06.10
CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 022	1.1	The Republic of the Union of Myanmar	Title: CCC PoA for distribution of ICS in developing countries (Myanmar): CPA # Ref. No.: Generic CPA 001	06.10
CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 023	1.1	The Republic of the Union of Myanmar	Title: CCC PoA for distribution of ICS in developing countries (Myanmar): CPA # Ref. No.: Generic CPA 001	06.10

CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 024	1.1	The Republic of the Union of Myanmar	Title: CCC PoA for distribution of ICS in developing countries (Myanmar): CPA # Ref. No.: Generic CPA 001	06.10
CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 025	1.1	The Republic of the Union of Myanmar	Title: CCC PoA for distribution of ICS in developing countries (Myanmar): CPA # Ref. No.: Generic CPA 001	06.10
CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 026	1.1	The Republic of the Union of Myanmar	Title: CCC PoA for distribution of ICS in developing countries (Myanmar): CPA # Ref. No.: Generic CPA 001	06.10
CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 027	1.1	The Republic of the Union of Myanmar	Title: CCC PoA for distribution of ICS in developing countries (Myanmar): CPA # Ref. No.: Generic CPA 001	06.10
CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 028	1.1	The Republic of the Union of Myanmar	Title: CCC PoA for distribution of ICS in developing countries (Myanmar): CPA # Ref. No.: Generic CPA 001	06.10
CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 029	1.1	The Republic of the Union of Myanmar	Title: CCC PoA for distribution of ICS in developing countries (Myanmar): CPA # Ref. No.: Generic CPA 001	06.10
CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 030	1.1	The Republic of the Union of Myanmar	Title: CCC PoA for distribution of ICS in developing countries (Myanmar): CPA # Ref. No.: Generic CPA 001	06.10
CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 031	1.1	The Republic of the Union of Myanmar	Title: CCC PoA for distribution of ICS in developing countries (Myanmar): CPA # Ref. No.: Generic CPA 001	06.10

CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 032	1.1	The Republic of the Union of Myanmar	Title: CCC PoA for distribution of ICS in developing countries (Myanmar): CPA # Ref. No.: Generic CPA 001	06.10
CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 033	1.1	The Republic of the Union of Myanmar	Title: CCC PoA for distribution of ICS in developing countries (Myanmar): CPA # Ref. No.: Generic CPA 001	06.10
CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 034	1.1	The Republic of the Union of Myanmar	Title: CCC PoA for distribution of ICS in developing countries (Myanmar): CPA # Ref. No.: Generic CPA 001	06.10
CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 035	1.1	The Republic of the Union of Myanmar	Title: CCC PoA for distribution of ICS in developing countries (Myanmar): CPA # Ref. No.: Generic CPA 001	06.10
CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 036	1.1	The Republic of the Union of Myanmar	Title: CCC PoA for distribution of ICS in developing countries (Myanmar): CPA # Ref. No.: Generic CPA 001	06.10
CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 037	1.1	The Republic of the Union of Myanmar	Title: CCC PoA for distribution of ICS in developing countries (Myanmar): CPA # Ref. No.: Generic CPA 001	06.10
CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 038	1.1	The Republic of the Union of Myanmar	Title: CCC PoA for distribution of ICS in developing countries (Myanmar): CPA # Ref. No.: Generic CPA 001	06.10
CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 039	1.1	The Republic of the Union of Myanmar	Title: CCC PoA for distribution of ICS in developing countries (Myanmar): CPA # Ref. No.: Generic CPA 001	06.10

CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 040	1.1	The Republic of the Union of Myanmar	Title: CCC PoA for distribution of ICS in developing countries (Myanmar): CPA # Ref. No.: Generic CPA 001	06.10
CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 041	1.1	The Republic of the Union of Myanmar	Title: CCC PoA for distribution of ICS in developing countries (Myanmar): CPA # Ref. No.: Generic CPA 001	06.10
CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 042	1.1	The Republic of the Union of Myanmar	Title: CCC PoA for distribution of ICS in developing countries (Myanmar): CPA # Ref. No.: Generic CPA 001	06.10
CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 043	1.1	The Republic of the Union of Myanmar	Title: CCC PoA for distribution of ICS in developing countries (Myanmar): CPA # Ref. No.: Generic CPA 001	06.10
CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 044	1.1	The Republic of the Union of Myanmar	Title: CCC PoA for distribution of ICS in developing countries (Myanmar): CPA # Ref. No.: Generic CPA 001	06.10
CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 045	1.1	The Republic of the Union of Myanmar	Title: CCC PoA for distribution of ICS in developing countries (Myanmar): CPA # Ref. No.: Generic CPA 001	06.10
CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 046	1.1	The Republic of the Union of Myanmar	Title: CCC PoA for distribution of ICS in developing countries (Myanmar): CPA # Ref. No.: Generic CPA 001	06.10
CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 047	1.1	The Republic of the Union of Myanmar	Title: CCC PoA for distribution of ICS in developing countries (Myanmar): CPA # Ref. No.: Generic CPA 001	06.10

CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 048	1.1	The Republic of the Union of Myanmar	Title: CCC PoA for distribution of ICS in developing countries (Myanmar): CPA # Ref. No.: Generic CPA 001	06.10
CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 049	1.1	The Republic of the Union of Myanmar	Title: CCC PoA for distribution of ICS in developing countries (Myanmar): CPA # Ref. No.: Generic CPA 001	06.10
CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 050	1.1	The Republic of the Union of Myanmar	Title: CCC PoA for distribution of ICS in developing countries (Myanmar): CPA # Ref. No.: Generic CPA 001	06.10
CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 051	1.1	The Republic of the Union of Myanmar	Title: CCC PoA for distribution of ICS in developing countries (Myanmar): CPA # Ref. No.: Generic CPA 001	06.10
CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 052	1.1	The Republic of the Union of Myanmar	Title: CCC PoA for distribution of ICS in developing countries (Myanmar): CPA # Ref. No.: Generic CPA 001	06.10
CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 053	1.1	The Republic of the Union of Myanmar	Title: CCC PoA for distribution of ICS in developing countries (Myanmar): CPA # Ref. No.: Generic CPA 001	06.10
CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 054	1.1	The Republic of the Union of Myanmar	Title: CCC PoA for distribution of ICS in developing countries (Myanmar): CPA # Ref. No.: Generic CPA 001	06.10
CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 055	1.1	The Republic of the Union of Myanmar	Title: CCC PoA for distribution of ICS in developing countries (Myanmar): CPA # Ref. No.: Generic CPA 001	06.10

CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 056	1.1	The Republic of the Union of Myanmar	Title: CCC PoA for distribution of ICS in developing countries (Myanmar): CPA # Ref. No.: Generic CPA 001	06.10
CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 057	1.1	The Republic of the Union of Myanmar	Title: CCC PoA for distribution of ICS in developing countries (Myanmar): CPA # Ref. No.: Generic CPA 001	06.10
CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 058	1.1	The Republic of the Union of Myanmar	Title: CCC PoA for distribution of ICS in developing countries (Myanmar): CPA # Ref. No.: Generic CPA 001	06.10

D.2. Compliance with CPA-DD form

Means of validation	<p>The CPA DDs (48 CPAs) applied the component project design document form component project activities (CDM-CPA-DD-FORM) version 09/20/, which is a valid form available on UNFCCC/CDM website. The validation team confirms that the CPA-DDs are completed in accordance with the Instructions for filling out the component project activity design document /19/ form for CDM component project activities. Same is confirmed from https://cdm.unfccc.int/Reference/PDDs_Forms/index.html#proj_cycle.</p> <p>Relevant information was provided by the CME (Climate Change Center) and the CPA Implementer (Ministry of Agriculture, Livestock and Irrigation (MOALI)) in the applicable CPA-DD sections.</p>
Findings	CAR 01 and CAR 03 were raised and successfully closed. Refer to Appendix 4 for further details.
Conclusion	The assessment team confirms that the CPA-DDs are prepared in accordance with the latest valid template and Instructions for filling out the component project design document form available on the UNFCCC CDM website. CPA-DDs have been prepared in line with the generic CPA-DD template approved during PoA validation.

D.3. General description of the CPAs

Means of validation	<p>The main objective of PoA/CPAs is the dissemination of the efficient improved cooking stove to the rural households of Myanmar resulting in the reduction of firewood consumption leading to climate change mitigation in a sustainable manner as verified from the PoA-DD /02/ and CPA-DDs /01/.</p> <p>The CPAs (48 CPAs: CPA 011 to CPA 058) involves – installation of energy efficient biomass based Improved Cooking Stoves (ICSs) in the households located within Republic of the Union of Myanmar (Myanmar).</p> <p>Implementation of each CPA will replace the traditional three-stone cookstoves with the ICSs. An improved cookstove (ICS) called E-FREE Cook Stoves are distributed to the local households in replacement of the traditional firewood stoves under all the 48 CPAs. The introduced ICS model reduces fuel use and the emissions reductions by improving heat transfer and combustion efficiency compared to the preproject device. The technical specifications have been verified from the Manufacturer specification /13/.</p> <p><i>Technical manufacturer specification of E-FREE Cook Stove:</i></p> <ul style="list-style-type: none"> • Dimension Height 10"x Diameters 11"& 8" • Material Clay and metal
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- Fuel type Firewood
- Efficiency 28%

All the 48 CPAs (CPA 011 to CPA 058) are identical and distributing ICS with almost same timeline as discussed with CME (CCC) and CPA Implementer (MOALI). As discussed with CME (CCC) and CPA Implementer (MOALI), only one type of model, the E-FREE will be distributed and only one stove per household at a time will be distributed throughout all the 48 CPAs. The ICS user is selected by CPA Implementer (MOALI) based on the Target Group defined in the PoA (i.e. no electricity access and currently using traditional wood stoves) through a baseline survey sheet /31/ as checked by the validation team and ICS are only distributed to the selected household as per baseline survey sheet /31/. The ICS households to each CPA are unique and does not involve in other CPAs of the PoA as checked from the Baseline survey sheet for each CPA /31/ and interview with CCC and MOALI. CPA implementer is expected to distribute around 36,000 ICS under each CPA. Also, CME through Skype interview confirmed that no public funding will be diverted for the CPA implementation.

The lifespan of the ICS is estimated to be two (2) years according to the ICS manufacturer /27/ however in order to maintain high performance and efficiency of project devices, the ICSs will be replaced every two (2) years throughout the crediting period of the CPAs regardless of the devices' operation condition.

A WBT for the ICS has been conducted by the laboratory at Department of Industrial Chemistry, University of Yangon, the national university of Myanmar /09/ and was certified that thermal efficiency of the ICS manufactured by MCS is 28%. The test was conducted based on the Standard set by the Partnership for Clean Indoor Air (PCIA) as suggested by the applied methodology. The actual efficiency of the ICSs will be measured during the CPA Monitoring Stage as per the monitoring plan.

Myanmar Ceramic Society (MCS) is the manufacturer of the E-FREE Cook Stoves, where the manufacturing facilities are located in each project region as verified by interview. From the interview with ICS Manufacturer (MCS), it was confirmed that ICS will maintain the same quality during the ICS production as per the Production manual for E-FREE cook stove /28/. In order to distinguish, track and monitor ICSs in the CPA, all ICSs will be given a unique serial number which has been verified from the captured videos /34/.

At the time of distribution, every end-user will fill out and sign conformity letter to ensure the end-user's participation to and tracking by the project. Conformity letter /06/ also confirm the CER ownership rights. The first conformity letters /06/ for all the 48 CPAs were validated by the assessment team and found in line with the PoA DD/02/. As per the conformity letter, the distribution date of first ICS (start date) for each CPA is after the PoA start date 25/05/2018 which is acceptable.

The proposed CPA will only distribute ICS which will qualify as micro-scale units i.e. microscale threshold of 1,800 MWh_{th} of annual energy savings per appliance. Validation team has checked the submitted sheet /30/ for the energy saving from the ICS (0.0092 GWh/appliance) and found below the microscale threshold of 1,800 MWh_{th} of annual energy savings per appliance.

As each ICS unit to be distributed under the proposed CPA will qualify as micro scale units, the CPA does not need to demonstrate fulfilment with the debundling requirement (version 09 of the "Tool for Demonstration of additionality of microscale projects").

The estimated annual emission reduction from each CPA will be 21,656 tCO₂e. These CPAs are supported by SK Group of the Republic of Korea.

The physical and geographical boundary of PoA /02/ is entire host country i.e. Myanmar as validated by interviewing the CME Representative. The PoA has not received any public funding as confirmed by interviewing the representative of

CME.

CME has chosen a crediting period of 7 years which can be renewed twice. It was found in line with the PoA-DD /02/.

Geographical Locations of CPAs:

The CPAs will be implemented in several villages and households in the region of Myanmar. Below table summarizes the location of the CPAs along with the geographic coordinates:

CPA Ref No.	Region	District	Township	Geographic coordinates
011	Ayeyarwaddy	Pathein	Pathein	16°47'04.2"N
			Thabaung	94°43'55.0"E
012	Ayeyarwaddy	Pathein	Kyonpyaw	17°18'14.7"N 95°11'43.1"E
013	Ayeyarwaddy	Pathein	Kyaunggon	17°20'41.4"N
			Yaekyi	95°06'56.2"E
014	Ayeyarwaddy	Pathein	Nga Pu Taw	16°32'28.9"N 94°41'31.6"E
015	Ayeyarwaddy	Pathein	Nga Pu Taw	16°32'28.9"N
			Kangyidaunt	94°41'31.6"E
016	Ayeyarwaddy	Pathein	Kangyidaunt	16°56'07.8"N
		Maupin	Pantanaw	94°53'50.0"E
017	Ayeyarwaddy	Maubin	Maubin	16°43'52.1"N 95°38'53.8"E
018	Ayeyarwaddy	Maubin	Maubin	16°43'52.1"N
			Nyaungdon	95°38'53.8"E
019	Ayeyarwaddy	Maupin	Nyaungdon	17°15'36.5"N
			Danubyu	95°35'10.5"E
		Hinthada	Zalun	
020	Ayeyarwaddy	Hinthada	Zalun	17°28'40.5"N
			Lemyethna	95°33'03.0"E
021	Ayeyarwaddy	Hinthada	Ingapu	17°48'27.1"N 95°16'06.8"E
022	Ayeyarwaddy	Hinthada	Ingapu	18°14'56.5"N
			Myanaung	95°19'50.0"E
			Kyangin	
023	Ayeyarwaddy	Hinthada	Kyangin	18°19'57.4"N
			Hinthada	95°14'54.6"E
024	Ayeyarwaddy Yangon	Hinthada	Hinthada	17°38'38.1"N
		Southern Yangon	Thonekwa	95°26'47.9"E,
			Khayan	Ayeyarwaddy
			Thanlyin	Region and
			Kyauktan	16°45'44.9"N
			Tadar	96°31'53.6"E,
		Northern Yangon	Hlegu	Yangon Region
			Taikgyi	
025	Yangon	Southern Yangon	Twantay	16°42'37.4"N
			Kawhmu	95°55'36.0"E
			Kungyangon	
026	Yangon	Northern Yangon	Taik kyi	17°18'59.3"N
			Htantapin	95°58'20.5"E,
	Bago	Bago	Bago	Yangon Region and 17°19'51.2"N 96°30'46.2"E, Bago region
027	Bago	Bago	Bago	17°19'51.2"N

			Thatnatpin	96°30'46.2"E
			Kawa	
	028	Bago	Bago	Kawa
			Waw	17°05'20.2"N 96°27'14.5"E
	029	Bago	Bago	Waw
			Dike-U	17°29'00.6"N 96°40'59.9"E
			Nyaunglaypin	
			Shwekyin	
	030	Bago	Bago	Shwegyin
			kyauktaga	17°55'41.0"N 96°52'37.9"E
		Taungoo	Taungoo	
	031	Bago	Taungoo	Taungoo
			Htantapin	19°09'24.5"N 96°20'59.2"E
			Yedashe	
	032	Bago	Taungoo	Yedashe
			Oktwin	19°09'24.5"N 96°20'59.2"E
			Phyu	
			Kyaukkyi	
	033	Bago	Taungoo	Kyaukkyi
		Pyay	Pyay	18°49'01.7"N 95°14'42.9"E
			Shwedaung	
	034	Bago	Pyay	Shwedaung
			Paungde	18°42'57.9"N 95°13'08.6"E, Bago Region and
			Padaung	17°18'47.7"N 97°00'42.6"E, Mon Region.
		Mon	Thadon	Thadon
			Belin	
		Mawlamyaing	Mawlamyaing	
	035	Mon	Mawlamyaing	Thanbyuzayat
			Kyaukmaraw	15°58'02.2"N 97°43'57.0"E
			Ye	
	036	Mon	Mawlamyaing	Ye
		Nay Pyi Taw	Oattayathiri	15°15'13.6"N 97°51'09.9"E, Mon Region and
			Dekhinathiri	20°07'55.9"N 96°12'25.2"E, Nay Pyi Taw Region
	037	Shan	Taunggyi	Taunggyi
			Nyaungshwe	20°47'00.2"N 97°01'52.0"E
			Pindaya	
			Kalaw	
			Ywangan	
			Lawksawk	
	038	Shan	Taunggyi	Lawksawk
			Pinlaung	20°07'23.0"N 96°47'00.9"E
			Pekon	
			Hsihseng	
	039	Shan	Taunggyi	Hsihseng
			Hopong	20°55'36.2"N 97°33'46.1"E
		Loilem	Loilem	
			Namsang	
	040	Ayeyarwaddy	Myaungmya	Myaungmya
				16°35'37.1"N 94°55'11.6"E
	041	Ayeyarwaddy	Myaungmya	Myaungmya
			Einme	16°53'44.3"N 95°11'01.3"E

				Wakema	
	042	Ayeyarwaddy	Myaungmya	Wakema	16°36'03.6"N 95°10'14.3"E
	043	Ayeyarwaddy	Labutta	Labutta	16°09'06.6"N 94°45'20.8"E
	044	Ayeyarwaddy	Labutta	Labutta	16°23'22.9"N
				Mawlamyainggyun	95°15'27.9"E
	045	Ayeyarwaddy	Labutta	Mawlamyinegyun	16°23'41.2"N 95°15'55.1"E
	046	Ayeyarwaddy	Pyapon	Pyapon	16°16'45.6"N 95°41'00.3"E
	047	Ayeyarwaddy	Pyapon	Pyapon	16°24'41.4"N
				Dedaye	95°53'10.4"E
	048	Ayeyarwaddy	Pyapon	Kyaiklat	16°27'12.4"N 95°42'37.8"E
	049	Ayeyarwaddy	Pyapon	Bogale	16°17'00.5"N 95°23'45.7"E
	050	Ayeyarwaddy	Pyapon	Pyapon	16°16'45.6"N
				Bogale	95°41'00.3"E,
		Bago	Pyay	Padaung	Ayeyarwaddy Region and 18°43'04.4"N 95°09'01.5"E, Bago Region
	051	Bago	Pyay	Padaung	18°43'04.4"N
				Paukkhaung	95°09'01.5"E
	052	Bago	Pyay	Paukkhaung	18°38'57.0"N
				Thegon	95°24'41.2"E
			Thayarwaddy	Nattalin	
	053	Bago	Thayarwaddy	Nattalin	18°14'26.2"N
				Zigon	95°39'08.0"E
				Gyobingauk	
				Okpho	
	054	Bago	Thayarwaddy	Okpho	18°07'50.7"N
				Monyo	95°40'33.7"E
	055	Bago	Thayarwaddy	Monyo	17°39'15.3"N
				Minhla	95°47'05.5"E
				Letpadan	
Thayarwaddy					
056	Shan	Loilin	Namsang	20°53'53.5"N	
			Pinlon	97°43'28.8"E	
		Lashio	Tangyan		
			Mongyai		
		Lashio			
057	Shan	Lashio	Lashio	22°58'04.1"N	
		Kyaukme	Hsipaw	97°45'25.9"E	
058	Shan	Kyaukme	Hsipaw	22°37'24.7"N	
			Kyaukme	97°17'52.8"E	
			Nawngkhio		
Findings	CL 01, CL 02 and CAR 04 was raised and successfully closed. Refer to Appendix 4 for further details.				
Conclusion	The assessment team confirms that : (a) The project description as mentioned in CPA DDs validated by reviewing the supporting evidence and same has been also confirmed by interviewing the technical personnel involved in project. (b) Based on discussion above the assessment team confirms that project description provided in CPA DDs /01/ is complete and accurate, hence complies				

	with VVS V02 for PoAs/15/ (c) The validation team has conducted various interviews as per the details provided under Section C.3 above.
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D.4. Application of methodologies and standardized baselines

D.4.1. Reference to methodologies and standardized baselines

Means of validation	<p>The registered PoA /02/ applied the approved methodology AMS-II.G., version 09 /18/.</p> <p>All the 48 CPAs have justified for the applicability criteria of the applied methodology and tools: AMS-II.G. "Energy Efficiency Measures in Thermal Applications of Non-Renewable Biomass", Version 09.0.</p> <p>Validation team has assessed the meth applicability criteria by means of document review and interviews and found that CPAs have properly justified and comply with the applicability criteria.</p>
Findings	No findings raised.
Conclusion	The applied methodology is applicable in the context of the proposed CPAs /01/ and in line with the PoA DD/02/.

D.4.2. Project boundary, sources and GHGs

Means of validation	The project boundary of all the CPAs are in line with the PoA and methodology applied/18/.				
	As per para 15 of the applied methodology AMS-II.G. Version 09 /18/, the CPA project boundary is the physical, geographical site of the efficient devices that utilize biomass.				
	The CPAs are located in Myanmar, which is within the geographical boundary of the proposed PoA. The project boundary was validated by reviewing the CPA-DDs /01/ and interview.				
	The validation team was able to confirm that all the identified emission sources which are impacted by the project are addressed by the approved methodology /18/ and can be seen in the table below.				
		Sources	Gas	Included?	Justification/Explanation
	Baseline Scenario	Combustion of non- renewable biomass for combustion	CO ₂	Yes	Major source of emissions from traditional cook stoves
			CH ₄	No	Negligible source of emissions and therefore excluded.
			N ₂ O	No	Negligible source of emissions and therefore excluded.
	Project Scenario	Implementation of energy efficient ICSs resulting in decrease of combustion of non-renewable biomass for cooking	CO ₂	Yes	Source of emissions
			CH ₄	No	Negligible source of emissions and therefore excluded.
N ₂ O			No	Negligible source of emissions and therefore excluded.	
Leakage (Diversion of non-renewable biomass saved under the project activity by non-project households that previously used renewable source)		CO ₂	Yes	Source of emissions	
		CH ₄	No	Negligible source of emissions and therefore excluded.	
		N ₂ O	No	Negligible source of emissions and therefore excluded.	
Findings	No findings raised.				
Conclusion	The GHG emission reduction occurring within the project boundary is CO2 and no other gases are involved during the project. The same has been verified during the course of validation. This has been validated in accordance with VVS V02 for CDM PoAs/15/.				
	The assessment team confirms that the GHG emissions as a result of the implementation of the proposed CPAs which is not addressed by the applied methodology, i.e. AMS-II.G., version 09 are deemed to contribute less than 1% of the overall expected average annual emissions reductions.				

D.4.3. Baseline scenario

Means of validation	<p>According to para 16 of the applied methodology AMS-II.G. Version 09 /18/, baseline scenario is "It is assumed that in the absence of the project activity, the baseline scenario would be the projected use of fossil fuels to meet similar thermal</p>
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	<p>energy needs as those provided by the project devices.”</p> <p>The assessment team has performed the following steps to assess the requirements for baseline identification:</p> <ul style="list-style-type: none"> • Initial desk review • Telephonic/Skype interviews and video recording • Background information/ knowledge from similar projects and/ or technologies • $f_{NRB,y}$ value • Baseline survey for the efficiency of the baseline stove ($\eta_{old,i,j}$) - Baseline survey checklist sheet for all the 48 CPAs /31/ which is prepared before distributing the ICS to households <p>The baseline scenario is in accordance with para 16 of the applied methodology AMS-II.G, Version 09 i.e.</p> <p><i>It is assumed that in the absence of the project activity, the baseline scenario would be the projected use of fossil fuels to meet similar thermal energy needs as those provided by the project devices.</i></p> <p>The ICS user is selected by CPA Implementer (MOALI) based on the Target Group defined in the PoA (i.e. no electricity access and currently using traditional wood stoves) through a baseline survey sheet /31/ as checked by the validation team and ICS are only distributed to the selected household as per baseline survey sheet /31/.</p>
Findings	No findings raised.
Conclusion	<p>Based on the validated assumptions used for project activity calculations, validation team considers that the identified baseline scenario for the PoA is reasonable. Furthermore, the baseline scenario identified for the specific CPA is reasonable and in accordance with the PoA-DD.</p> <p>Taking the definition of the baseline scenario into account, Validation team confirms that all relevant CDM requirements, including relevant and/or sectoral policies and circumstances, have been identified correctly in the specific case CPA-DDs.</p> <p>KBS confirms the following statements:</p> <ol style="list-style-type: none"> a) All the assumptions and data used by the CME are listed in the CPA-DDs, including their references and sources; b) All documentation used is relevant for establishing the baseline scenario and correctly quoted and interpreted in the CPA-DDs /01/; c) Assumptions and data used in the identification of the baseline scenario are justified appropriately, supported by evidence, and can be deemed reasonable; d) Relevant national and/or sectoral policies and circumstances are considered and listed in the CPA-DDs /01/ and generic CPA-DD; e) The approved baseline methodology has been correctly applied to identify the most reasonable baseline scenario, and the identified baseline scenario reasonably represents what would occur in the absence of the proposed CDM PoA/CPA. f) The CPA-DDs provides a description of the identified baseline scenario, including a description of the technology that would be employed and/or the activities that would take place in the absence of the proposed PoA.

D.5. Estimation of emission reductions or net anthropogenic removals**D.5.1. Equations and parameters applied to calculate GHG emission reductions or net anthropogenic GHG removals**

Means of validation	<p>The following equations and parameters of the applied methodology AMS-II.G. Version 09 have been used under all the 48 CPAs.</p> <p>1. Equation 1 and 2 of the applied methodology have been used for the ER calculation which is found OK.</p> <p>2. For the calculation of $B_{y,savings,i,j}$, option 3 (Para 22, equation 7) of the applied methodology AMS-II.G. Version 09 /18/ has been used which is in compliance with the registered PoA-DD /02/.</p> <p>The equations and parameters presented in the CPA-DDs /01/ and ER sheets /07/ have been assessed as correct and in line with the applied methodology AMS-II.G. Version 09 /18/ and the registered PoA-DD /02/.</p>
Findings	No findings raised.
Conclusion	<p>The assessment team confirms that all estimates of the baseline emissions, project emissions and Leakage emissions can be replicated using the data and parameter values provided in the generic CPA DD /02/ and is complete and accurate, hence complies with VVS V02 for PoAs/15/.</p> <p>The validation team confirms that</p> <p>(a) The baseline methodology and corresponding tool(s) have been applied correctly to calculate project emissions, baseline emissions, leakage and emission reductions;</p> <p>(b) All estimates of the baseline emissions can be replicated using the data and parameter values provided in the CPA DDs /01/.</p>

D.5.2. Data and parameters fixed ex ante

Means of validation	The data/parameters fixed ex-ante in the CPA-DDs /01/ are defined as follows:			
	Parameters	Value	Unit	Source/Justification
	$\eta_{old,i,j}$ (Efficiency of pre-project device, which is a three-stone fire using firewood (not charcoal), or a conventional device with no improved combustion air supply or flue gas ventilation, that is without a grate or a chimney)	0.1	Fraction	<p>As per methodology AMS-II.G, Version 09/18/, for three stone baseline it is 0.1. It was verified from the baseline survey checklist /31/ that the baseline cook stove was a three stone cookstove.</p> <p>The ICS user is selected by CPA Implementer (MOALI) based on the Target Group defined in the PoA (i.e. no electricity access and currently using traditional wood stoves) through a baseline survey sheet /31/ as checked by the validation team and ICS are only distributed to the selected household as per baseline survey sheet /31/.</p> <p>Fixed value is in compliance with the applied methodology i.e. AMS-II.G. Version 09 /18/ and the PoA-DD /02/.</p>

				Validation team has checked the source of the data and found acceptable.
	μ_y (Adjustment to account for any continued use of pre-project devices during the year y.)	1	Fraction	As per the applied methodology AMS-II.G, Version 09/18/, 1.0 is applied when equation 3, 5 and 7 is used to estimate $B_{y,savings,i,j}$. Since PoA-DD/02/ and CPA-DDs /01/ are applying equation 7, the value of 1.0 is selected in accordance with the methodology. This value is fixed at PoA level which is in compliance with the applied methodology i.e. AMS-II.G. Version 09 /18/ and the PoA-DD /02/. Validation team has checked the source of the data and found acceptable.
	$f_{NRB,y}$ (Fraction of woody biomass saved by the project activity in year y that can be established as non-renewable biomass)	0.3	Fraction	Default value as per the tool, "Calculation of the fraction of non-renewable biomass", Version 01/33/. This value is fixed at PoA level which is in compliance with the applied methodology i.e. AMS-II.G. Version 09 /18/ and the PoA-DD /02/. Validation team has checked the source of the data and found acceptable.
	$NCV_{biomass}$ (Net calorific value of the non-renewable woody biomass that is substituted (IPCC default for wood fuel, 0.0156 TJ/tonnes, based on the gross weight of the wood that is 'air-dried'))	0.0156	TJ/tonne	Default value as per applied methodology AMS-II.G version 09.0/18/. This value is fixed at PoA level which is in compliance with the applied methodology i.e. AMS-II.G. Version 09 /18/ and the PoA-DD /02/. Validation team has checked the source of the data and found acceptable.
	$EF_{projected_fossilfuel}$ (Emission factor for the fossil fuels projected to be used for substitution of non-renewable woody biomass by similar consumer. Use a value of 63.7 tCO ₂ /TJ)	63.7	tCO ₂ /TJ	Default value as per applied methodology AMS-II.G version 09.0/18/. This value is fixed at PoA level which is in compliance with the applied methodology i.e. AMS-II.G. Version 09 /18/ and the

				PoA-DD /02/.
				Validation team has checked the source of the data and found acceptable.
	Leakage (Use of non-renewable woody biomass saved under the project activity to justify the baseline of other CDM project activities can also be a potential source of leakage. Increase in the use of non-renewable woody biomass outside the project boundary to create non-renewable woody biomass baselines can also be potential source of leakage. As an alternative to previous mentioned $B_{y,savings,i,j}$ can be multiplied by a net to gross adjustment factor of 0.95 to account for both leakage.)	0.95	Fraction	Default value as per applied methodology AMS-II.G version 09.0/18/. This value is fixed at PoA level which is in compliance with the applied methodology i.e. AMS-II.G. Version 09 /18/ and the PoA-DD /02/. Validation team has checked the source of the data and found acceptable.
The above ex-ante parameters are in accordance with applied methodology and shall be used in the specific CPA-DDs /01/ for the ER calculations in addition to the ex-post monitoring parameters. The same is also in line with the registered PoA-DD /02/, hence found correct by the assessment team.				
Findings	CAR 02 was raised and successfully closed. Refer to Appendix 4 for further details.			
Conclusion	The assessment team confirms that all estimates of the baseline emissions, project emissions and Leakage emissions can be replicated using the data and parameter values provided in the generic CPA DD /02/ and is complete and accurate, hence complies with VVS V02 for PoAs/15/. The assessment team confirms that: (a) All assumptions and data used by the project participants are listed in the CPA DD, including their references and sources; (b) All documentation used by project participants as the basis for assumptions and source of data is correctly quoted and interpreted in the CPA DD; (c) All values used in the CPA DD are considered reasonable in the context of the proposed CPA.			

D.5.3. Ex ante calculation of GHG emission reductions or net anthropogenic GHG removals

Means of validation	Based on the above formulae/equations, ex ante emission reductions have been estimated (considering maximum number of stoves i.e. 36,000 to be distributed in each CPA) as follows:										
	The simplified ex-ante emission reduction calculation of an average year during the stove's lifetime is as follows:										
	<table><tr><th>Parameter</th><th>Notation</th><th>Value</th><th>Units</th></tr><tr><td>Number of project devices of type i and batch j operating during year y</td><td>$N_{y,i,j}$</td><td>36,000</td><td>Number</td></tr></table>				Parameter	Notation	Value	Units	Number of project devices of type i and batch j operating during year y	$N_{y,i,j}$	36,000
Parameter	Notation	Value	Units								
Number of project devices of type i and batch j operating during year y	$N_{y,i,j}$	36,000	Number								

	Fraction of woody biomass saved by the project activity during year y that can be established as non-renewable biomass	$f_{NRB,y}$	0.3	Fraction
	Adjustment to account for any continued use of pre-project devices during the year y	μ_y	1.0	Fraction
	Net calorific value of the non-renewable woody biomass, charcoal used in project devices.	$NCV_{biomass}$	0.0156	TJ/tonnes
	Emission factor for the substitutions of non renewable biomass	$EF_{projected_fossilfuel}$	63.7	tCO ₂ /TJ
	Annual quantity of woody biomass used in project scenario	$B_{y=1,new,i,j,survey}$	1.18	Tonnes
	Efficiency of the pre-project device being replaced by project devices of type i and batch j.	$\eta_{old,i,j}$	0.1	Fraction
	Efficiency of the project device i and batch	$\eta_{new,i,j}$	0.28	Fraction
	Leakage adjustment factor	LAF	0.95	Fraction
<p>For CPA#011 to CPA#058:</p> $B_{y,savings,i,j} = B_{y=1,new,i,j,survey} \times (\eta_{new,i,j} / \eta_{old,i,j} - 1)$ $= 1.18 \times (0.28 / 0.1 - 1)$ $= 2.124 \text{ tonnes/year}$ $ER_{y,fuel} \times LAF = B_{y,savings,i,j} \times N_{y,i,j} \times \mu_y \times f_{NRB,y} \times NCV_{biomass} \times EF_{projected_fossil}$ $= 2.124 \times 36,000 \times 1.0 \times 0.3 \times 0.0156 \times 63.7 \times 0.95$ $= 21,656 \text{ tCO}_2/\text{year (rounded down)}$ <p>The calculation is demonstrated in ER sheets/07/ and validated by assessment team in line with the methodology /18/ and registered PoA-DD /02/ and found correct. The ex-ante parameters included in the equation are validated above. The parameters $B_{y=1,new,i,j,survey}$ and $\eta_{new,i,j}$ are part of monitoring plan and will be monitored.</p>				
Findings	No findings raised.			
Conclusion	<p>The assessment team confirms that</p> <p>(a) All assumptions and data used by the CME are listed in the CPA DDs/01/, including their references and sources;</p> <p>(b) All documentation used by CME as the basis for assumptions and source of data is correctly quoted and interpreted in the CPA DDs/01/;</p> <p>(c) All values used in the CPA DDs/01/ are considered reasonable in the context of the proposed CPAs and is complete and accurate, hence complies with VVS V02 for PoAs/15/..</p>			

D.5.4. Summary of ex ante estimates of GHG emission reductions or net anthropogenic GHG removals

Means of validation	The detailed calculation as per the methodology is presented in the ER spread sheet of each CPA provided by the CME /07/ and validated by the validation team. The final summary is given below: The ex-ante estimates of the GHG emission reductions are as follows: For CPA#011 to CPA#058:				
	Year	Baseline emissions (t CO ₂ e)	Project emissions (t CO ₂ e)	Leakage (t CO ₂ e)	Emission reductions (t CO ₂ e)
	Year 1	21,656	0	0	21,656
	Year 2	21,656	0	0	21,656
	Year 3	21,656	0	0	21,656
	Year 4	21,656	0	0	21,656
	Year 5	21,656	0	0	21,656
	Year 6	21,656	0	0	21,656
	Year 7	21,656	0	0	21,656
	Total	151,592	0	0	151,592
	Total number of crediting years	7			
Annual average over the crediting period	21,656	0	0	21,656	
The ex-ante estimates have been confirmed through the emission reductions excel sheet /07/ and CPA-DD /01/ and found correct.					
Findings	No findings raised.				
Conclusion	The assessment team confirms that all estimates of the baseline emissions, project emissions and Leakage emissions can be replicated using the data and parameter values provided in the CPA DDs/01/.				

D.6. Monitoring plan

D.6.1. Data and parameters to be monitored

Means of validation	The parameters (For CPA#011 to CPA#058) that are to be monitored ex-post are:			
	Parameter, Unit	Value	Description	Source/Justification
	N_{y,i,j} (Unit: Number)	36,000	Number of project devices of type i and batch j operating during year y.	<p>The number of project devices distributed are recorded and stored in the Project Database of specific-CPAs including the information on the device installation date and the address of the end-users. Validation team has checked the distribution database /08/ and found OK.</p> <p>All ICSs under the PoA will be replaced every two (2) years regardless of the operating/efficiency condition of the device which is also</p>

				<p>verified from the interview of CCC and MOALI.</p> <p>The number of ICSs operating under the CPA will be determined by conducting a sampling survey. The exact number of ICSs operating under the CPA will be based on fraction of ICS found operational in the sampling survey multiplied by total number of ICS in the CPA.</p> <p>Sampling survey will be carried out according to the sampling plan mentioned in Section B.4.6 of this CPA-DD.</p> <p>For each CPA, MOALI shall conduct sampling survey (biennial) and collect/record data. The CME supervises MOALI in data collection/archiving and provides training, guidelines to manage quality and reliable data.</p> <p>In cases where survey results indicate that 95/10 precision are not achieved, the lower bound of the 95 per cent confidence interval of the parameter value may be used as an alternative to repeating the survey on the basis of AMS-II.G ver 09, paragraph 36.</p> <p>The parameter and the monitoring are in compliance with the applied methodology. Also, the monitoring procedures considered for the monitoring parameter found to be appropriate and feasible.</p>
	$\eta_{new,i,j}$ (Unit: Fraction)	28%	Efficiency of the device of each type <i>i</i> and batch <i>j</i> implemented as part of the project activity	<p>A Water Boiling Test (WBT) for the ICS was conducted by the laboratory at Department of Industrial Chemistry, University of Yangon, the national university of Myanmar and was certified that thermal efficiency of the ICS manufactured by MCS is 28%/09/.The test was conducted based on the Standard set by the Partnership for Clean Indoor Air (PCIA) as suggested by the applied methodology. Lab test report/09/ validated to confirm the efficiency</p>

				<p>chosen.</p> <p>To determine emission reductions at CPA monitoring stage, CME is planned to conduct performance test in accordance with options given in the methodology. Compliance of requirement may be assessed with ex post monitoring result at verification stage.</p> <p>The parameter and the monitoring are in compliance with the applied methodology. Also, the monitoring procedures considered for the monitoring parameter found to be appropriate and feasible.</p>
	$B_{y=1,new,i,j,survey}$ (Unit: Tonnes)	1.18	Quantity of woody biomass used by project devices in tonnes per device of type I	<p>As verified by the validation team, the estimated $B_{y=1,new,i,j,survey}$ has been calculated using the average woodfuel consumption of households in the Asia region suggested in the "CDM –SSC WG Thirty-third meeting Report Annex 8"/32/.</p> <p>The parameter and the monitoring are in compliance with the applied methodology. Also, the monitoring procedures considered for the monitoring parameter found to be appropriate and feasible.</p>
	Life Span (Unit: Number of years)	2	The operating life time of the project device. The life span should be reported in cases where the PPs are opting to account the efficiency loss as per paragraph 27 of the applied methodology	<p>The operating life time of the project device has been verified from the manufacturer specification /27/. This is fixed and recorded at the time of commissioning/distribution of ICS.</p> <p>All ICSs under the PoA will be replaced every two (2) years regardless of the operating/efficiency condition of the device which is also verified from the interview of CCC and MOALI.</p> <p>The parameter and the monitoring are in compliance with the applied methodology. Also, the monitoring procedures considered for the monitoring parameter found to be appropriate and</p>

				feasible.
	Date of commissioning of project device i (Unit: Date)	Project database	Actual date of commissioning of the project device.	Actual date of commissioning of 1 st project device has been verified from the first conformity letters of each CPAs/06/ and found OK. Date of commissioning of project device will be the signing date of the Conformity Letter in each CPAs. Conformity Letter will be provided/signed by the ICS users at the time of ICS handover. It would be fixed and recorded at the time of commissioning/distribution of ICS in each CPA. The parameter and the monitoring are in compliance with the applied methodology. Also, the monitoring procedures considered for the monitoring parameter found to be appropriate and feasible.
	Date of commissioning of batch j (Unit: Date)	Project database	To establish the date of commissioning, the CPA Implementers may opt to group the devices in "batches" and the latest date of commissioning of a device within the batch shall be used as the date of commissioning for the entire batch	To establish the date of commissioning, the CPA Implementers may opt to group the devices in "batches" and the latest date of commissioning of a device within the batch shall be used as the date of commissioning for the entire batch. The parameter and the monitoring are in compliance with the applied methodology. Also, the monitoring procedures considered for the monitoring parameter found to be appropriate and feasible.
Findings	No findings raised.			
Conclusion	Assessment team confirms that - The parameters determined ex-post have been presented correctly according to the requirements in accordance with the applied methodology/18/ and the registered PoA-DD /02/.			

D.6.2. Description of the monitoring plan

Means of validation	<p>The monitoring plan described in the CPA DDs is in compliance with the applied Methodology/18/ and PoA DD/02/. The assessment team has reviewed all the parameters in the monitoring plan against the requirements of the applied methodology and confirmed that no deviation was observed. The procedures have been reviewed by the assessment team through document review and interviews with the respective department's personnel. The information provided has allowed the assessment team to confirm that the proposed monitoring plan is feasible within the project design. The relevant points of monitoring plan have been discussed with the CME and CPA implementer. Specifically, these points include the monitoring methodology, data management, and the quality assurance and quality control procedures to be implemented in the context of the project. Therefore, the CME/CPA Implementer will be able to implement the monitoring plan and the achieved emission reductions can be reported ex-post and verified.</p> <p>During the interviews, it was found that the monitoring plan of the CPA-DD is based on the overarching CME management system, and defines roles/responsibilities and internal arrangements in detail and in the context of the PoA. The details of monitoring and management system with roles and responsibilities are mentioned in the CPA-DD /02/ and also confirmed during the interview.</p> <p><u>Quality Assurance/Quality Control</u></p> <p>The CME will ensure that the monitoring personnel have reviewed, understood and have agreed to follow the monitoring plan procedures. A quality control and assurance strategy will be documented. The same was confirmed through the interviews with CME & CPA Implementer.</p> <p>The DOE is of the opinion that sufficient provisions are established to monitor the project activity and to obtain unbiased, reliable measurement of the data during the collection/measurement. The personnel to be engaged will be adequately trained and qualified and the credentials and/or training materials for the sampling personnel can be checked by the verifying DOE at verification stage.</p> <p>The sampling approach presented in CPA-DDs /01/ is in accordance with the Guidelines for Sampling and Surveys for CDM Project Activities and Programme of Activities /21/ and appropriate for the type of the project. The same is presented in the section B.4.6 of the CPA-DDs /01/. Validation team has found the sampling approach feasible and consistent with the registered PoA-DD /02/.</p> <p>The monitoring plan will be conducted in accordance with the requirements of the following CDM documents:</p> <ul style="list-style-type: none"> • AMS-II.G Version 09.0 • Guidelines for Sampling and Surveys for CDM Project Activities and Programme of Activities Version 04.0 <p>The above monitoring plan has been checked by the submitted documents and through the interviews of the CME/CPA Implementer.</p>
Findings	No findings raised.
Conclusion	<p>The assessment team confirms that:</p> <p>a) The monitoring plan based on the approved monitoring methodology, AMS- II. G., Version 09/18/ is included in the PoA-DD/02/ and CPA-DDs/01/ and is correctly applied to the CPA. The monitoring plan has been found to be in compliance with the requirements of the applied methodology. The monitoring plan will give opportunity for real measurements of achieved emission reductions.</p> <p>b) The assessment team considers that monitoring arrangements described in the monitoring plan is feasible within the project design and the CME will be capable to implement the monitoring plan.</p> <p>c) The assessment team by assessing Guidelines for sampling and surveys for CDM project activities and programme of activities /21/ confirms that the sampling plan is appropriate and plausible and is following the applicable requirements.</p>

D.7. Start date, crediting period type and duration

Means of validation	<p>The CPA DDs mention the CPA start date as mentioned in the below table for all the CPAs (from CPA#011 to CPA#058) based on the date of first ICS distribution as verified from the Conformity letters of each CPA/06/ which is after the start date of the PoA and after the date of the local stakeholder consultation.</p> <table border="1"> <thead> <tr> <th>CPA Title</th><th>Start date</th></tr> </thead> <tbody> <tr><td>CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 011</td><td>25/02/2020</td></tr> <tr><td>CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 012</td><td>18/02/2020</td></tr> <tr><td>CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 013</td><td>10/02/2020</td></tr> <tr><td>CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 014</td><td>19/02/2020</td></tr> <tr><td>CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 015</td><td>27/02/2020</td></tr> 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developing countries (Myanmar): CPA 016	18/02/2020	CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 017	28/02/2020	CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 018	01/02/2020	CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 019	28/02/2020	CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 020	23/02/2020	CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 021	01/02/2020	CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 022	25/02/2020	CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 023	18/02/2020	CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 024	01/02/2020	CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 025	01/02/2020	CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 026	01/02/2020	CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 027	03/02/2020	CCC 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	CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 045	17/02/2020
	CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 046	19/02/2020
	CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 047	07/02/2020
	CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 048	04/02/2020
	CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 049	20/02/2020
	CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 050	25/02/2020
	CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 051	09/02/2020
	CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 052	19/02/2020
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	CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 056	15/02/2020
	CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 057	20/02/2020
	CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 058	01/02/2020
	<p>The CPA-DDs propose a crediting period of 7 years (which is renewable twice) which has been chosen by the CME for the PoA. The start date is in accordance with the definition of start date in Glossary - CDM terms, Version 10/25/, which appears to be the first real action and financial commitment by the CPA Implementer, the validation team considers the above dates as the start date of the component project activities for CPA#011 to CPA#058.</p> <p>Start date of crediting period is opted as "29/02/2020 or on the date of inclusion of the CPA in the PoA, whichever is later" for all the CPAs, which is found reasonable and realistic.</p>	
Findings	No findings raised.	
Conclusion	The start dates and the crediting period type has been validated and found to be correct.	

D.8. Environmental impacts

Means of validation	EIA has been performed at PoA level.
Findings	Not Applicable
Conclusion	Not Applicable

D.9. Local stakeholder consultation

Means of validation	The local stakeholder consultation process is performed at the CPA level, the choice has been justified by the CME in section F.1 of the PoA DD /02/. The assessment of the Local stakeholder consultation process is described under section E of the CPA-DD /01/. The details of LSC conducted are as follows:			
	CPA	Location	Total Attendees	Date
	011	Pyay Aye hall, Thabaung Township, Ayeyarwady Region	73	08/08/2019
		Township Compound Office, Patheingyi Township, Ayeyarwady Region	93	09/08/2019
	012	Ayarmin Hall, Kyonpyaw Township, Ayeyarwady Region	265	06/08/2019
	013	Yaekyi Hall, Yaekyi Township, Ayeyarwady Region	180	06/08/2019
		Ayechan Tharyar Hall, General Administration Department, Kyaunggon Township, Ayeyarwady Region	96	11/08/2019
	014	Township Stadium, Nga Pu Taw Township, Ayeyarwady Region	189	02/08/2019
	015	Ayeyarthiri thukha Hall, Kangyidaunt Township, Ayeyarwady Region	157	05/08/2019
	016	Meeting Hall, General Administration Office, Pantanaw township, Ayeyarwady Region	140	09/08/2019
	017	General Administration Office, Maubin township, Ayeyarwady Region	250	09/08/2019
	018	City Hall, Nyaungdon township, Ayeyarwady Region	125	09/08/2019
	019	Pyilone Chanthar Pagoda, Danubyu township, Ayeyarwady Region	145	10/08/2019
	020	Township Statidum, Lay Myat Hnar Township, Ayeyarwady Region	136	12/08/2019
		General Administration Department Hall, General Administration Office, Za Lun township, Ayeyarwady Region	189	07/08/2019
	021	City Hall, Ingapu township, Ayeyarwady Region	276	06/08/2019
	022	Township Meeting Hall, Myan Aung Township, Ayeyarwady Region	139	08/08/2019
	023	AyarOo Hall, Kyangin township, Ayeyarwady Region	108	09/08/2019
	024	General Administration Department Hall, General Administration Department, Hinthada township, Ayeyarwady Region	306	05/08/2019
		Thihadipa Stadium, Thanlyin District, Yangon Region	210	05/08/2019
		Maternal and Child Care Office hall, Kyauktan township, Yangon	63	08/08/2019

		Region		
		General Administration Office, Taikkyi Township, Yangon Region	181	08/08/2019
		General Administration Office, Hlegu township, Yangon Region	68	09/08/2019
		Byamaso Hall , General Administration Office, Khayan township, Yangon Region	201	09/08/2019
		General Administration Office meeting hall , Tadar township, Yangon Region	211	09/08/2019
		General Administration Office meeting hall, Thonekwa Township, Yangon Region	185	09/08/2019
	025	Department of Information and Public Office Hall, Kawhmu Township, Yangon Region	136	09/08/2019
		Knowledge Center(Kangyi), Kungyangon Township, Yangon Region	132	08/08/2019
	026	General Administration Office meeting hall, Htantapin Township, Yangon Region	211	10/08/2019
	027	General Administration Office, Kawa Township, Bago Region	92	31/07/2019
		Township Stadium, Thatnapin Township, Bago Region	310	03/08/2019
		Shwepyitan Hall , General Administration Office, Bago township, Region	164	06/08/2019
	028	Moeyoungyi Hall, General Administration Office, Waw township, Bago Region	183	09/08/2019
	029	Shwepyitan Hall , General Administration Office, Daik-U township, Bago Region	211	07/08/2019
		Shwepyitan Hall , General Administration Office, Nyaunglaypin township, Region	135	10/08/2019
	030	Meeting Hall, General Administration Office, Shwegyin township, Bago Region	162	23/08/2019
		Municipal Hall, Kyauktaga Township, Bago Region	67	11/08/2019
		Meeting Hall, General Administration Office, Taungoo Township, Bago Region	87	10/08/2019
	031	Shwepyitan Hall , General Administration Office, Htantapin township, Bago Region	82	03/08/2019
		General Administration Office, Yedashae township, Bago Region	137	09/08/2019
	032	Municipal Hall, Phyu Township, Bago Region	123	04/08/2019
		Thiriyadanar Hall, General Administration Office, Oktwin Township, Bago Region	98	05/08/2019
	033	Meeting Hall, General Administration Office, Kyaukkyi Township	93	15/08/2019
		Zeoak Extension Camp, DOA, Pyay Township, Bago Region	156	10/08/2019

	034	Shwepyitan Hall, General Administration Office, Shwedaung Township, Bago Region	124	03/08/2019
		Township Officer Office, Department of Agriculture, Kyaikhtiyo Pagoda Road, Taung Thu Zu Quarter, Kyaikhto Township, Mon State	49	22/08/2019
		Agricultural Vocational Training School, Myay Ni Gone Village, Thaton Township, Mon State	102	11/08/2019
		Meeting Room, Township Administration Office, Belin Township, Mon State	116	23/08/2019
	035	Bayintnaung Hall, Thanbyuzayat Township, Mon State	91	21/08/2019
		Shwehinthar Hall, Kyaikmaraw Township, Mon State	90	16/09/2019
		Meeting Room, Township General Administration Office, Ye Township	157	10/09/2019
	036	DOA Township Office, Tatkon Township, Naypyitaw Region	78	01/08/2019
	037	DOA meeting hall, Taunggyi City, Shan State	206	12/08/2019
		City Hall, Kalaw Township, Shan State	274	09/08/2019
	038	Township Administration Office, Pinlaung Township, Shan State	228	05/08/2019
		City Hall, Pekon Township, Shan State	280	05/08/2019
	039	Phaloibwe Monastery Building, Hopong Township, Shan State	274	07/08/2019
	040	Mya Shwe War Hall, General Administration Office, Myaungmya township, Ayeyarwady Region	179	09/08/2019
	041	Shwepyitan Hall, General Administration Office, Einme township, Ayeyarwady Region	211	03/08/2019
	042	Aungzayya Hall, General Administration Office, Wakema township, Ayeyarwady Region	333	09/08/2019
	043	Ywaynadi Hall, Labutta township, Ayeyarwady Region	189	01/08/2019
	044	Mawshwewar Hall(1), General Administration Office, Mawlamyainggyun township, Ayeyarwady Region	353	01/08/2019
	045	Pathein Hotel, Pathein City, Ayeyarwaddy Region	116	08/07/2019
	046	Thiri Annawar Hall, Pyapone township, Ayeyarwady Region	146	18/08/2019
	047	Meeting Hall, General Administration Office, Dedaye township, Ayeyarwady Region	210	10/08/2019
	048	Shwewarlat Hall, Kyaiklat township, Ayeyarwady Region	231	10/08/2019
	049	General Administration Office, Bogale township, Ayeyarwady	255	13/08/2019

050	Thapyaygone Community Learning Center, General Administration, Padaung Township, Bago Region	67	05/08/2019
051	Meeting Hall, General Administration Office, Padaung township, Bago Region	83	16/08/2019
	Shwepyitan Hall, General Administration Office, Paukkhaung township, Bago Region	265	07/08/2019
052	Meeting Hall, General Administration Office, Thegon township, Bago Region	139	08/08/2019
053	Meeting Hall, General Administration Office, Nattalin township, Bago Region	222	05/08/2019
	Community Learning Center, Nyaung Zin Village, Zigon township, Bago Region	121	07/08/2019
	General Administration Office, Gyobingauk township, Bago Region	78	07/08/2019
054	General Administration, Okpho township, Bago Region	117	05/08/2019
	Township DOA Hall, Monyo Township, Bago Region	35	06/08/2019
055	Meeting Room, DOA Office, Minhla township, Bago Region	87	06/08/2019
	Chanthargone Extension Camp, Letpadan township, Bago Region	109	05/08/2019
	Innywar Farmer Training Center, Thayarwaddy township, Bago Region	53	03/08/2019
056	Basic Education High School No(1), Nawadae Hall, Loilin township, Shan State	245	08/08/2019
057	City Hall, Lashio township, Shan State	175	12/08/2019
058	General Administration Office meeting room, Hsipaw Township, Shan State	129	12/08/2019
	General Administration Office Meeting Hall, Kyaukme township, Shan State	97	09/08/2019
	Township, Administration Office, Nawngkhio township, Shan State	60	09/08/2019

The local stakeholder meeting was conducted for each CPA on different dates as well as locations as mentioned above. The stakeholder meeting was open to the general public and all type of stakeholders (local/regional authority representatives, officers and end-user households) were invited to attend the meeting.

The stakeholders were informed about the local stakeholder consultation, venue and date through public invitation letter, village announcement posting and personal contacts several weeks prior to the event by the relevant staffs of the CPA Implementer.

Review of the presentation material, invitation letters, village announcement posting, Photos, MoM and list of attendees etc. /11/ for each CPA shows that the people were supportive to the CPAs and expressed no negative comments on the CPAs. It was confirmed from the interviews with the CME/CPA Implementer that

	<p>the stakeholders were given prior notice before the LSC meeting which was also confirmed by the telephonic interviews with the few stakeholders.</p> <p>During the LSC meetings, stakeholders were asked to directly comment on the project. A summary of the comments received and a note on how the account was taken of the concerns raised in the meeting was provided by the CME.</p> <p>The relevant documents for the stakeholder have been checked /11/ and confirmed that the stakeholder consultation was appropriately conducted and stakeholders were provided opportunity to provide their comments on the proposed CPA. Hence the stakeholder consultation conducted was found adequate.</p>
Findings	CL 03 was raised and successfully closed. Refer to Appendix 4 for further details.
Conclusion	Assessment team reviewed all relevant information of local stakeholder consultation meeting and confirms that the LSC meeting meets to the requirement of VVS V02 for PoAs/15/. The validation team also confirms that the process for conducting the local stakeholders meeting is adequate and credible.

D.10. Eligibility for inclusion

Means of validation	No.	Eligibility criterion Category	Eligibility criterion Required condition	Supporting evidence for inclusion	Means of validation/Findings/Conclusion
	1.	Geographical boundary	The PoA boundary corresponds to the boundaries of host country Myanmar. All distributed ICS in each CPA shall be located within geographical boundary of Myanmar.	• Database of project device distribution records	<p>The project boundary was validated and confirmed by CME and CPA Implementer during the skype interview that the CPAs will be distributed within Myanmar. The geographical boundaries mentioned in the CPA DDs/01/ for the CPAs was found adequate and was cross checked with the CME stove distribution record database/08/.</p> <p>Therefore the criterion met.</p>
	2.	Double counting	A unique system (i.e. conformity letter) for ICSS applies to each CPA, assigning a unique serial number on each ICS. This ensures no double counting of GHG emission reductions occur.	• A unique serial number assigned to each project device (serial number is composed of the CME name "CCC" followed by unique serial number, e.g., CCCXXXX XX); the serial number is recorded on	<p>The unique numbering will be given to each distributed ICS by the CME and the same would be recorded in Conformity Letter and the CME database. Validation team found that each ICS has a unique numbering and it is recorded on the Conformity Letter /06/ and the CME stove distribution record database/08/.</p> <p>Therefore the criterion met.</p>

				<p>Conformity letter signed by the end-user at the time of device distribution</p> <ul style="list-style-type: none"> Database of project device distribution records 	
	3.	Exclusiveness of CPA	<p>The CPA shall not be previously registered as CDM project activities, included in another registered PoAs, nor the project activities that have been deregistered.</p>	<ul style="list-style-type: none"> Confirmation by the CME - the potential project households are listed and assessed by the government authority affiliated with the CME to make sure exclusiveness of the households. 	<p>The assessment team has reviewed and confirmed with the CPA Implementer that the districts chosen for all the CPAs as well as the households in the districts are never involved in stove replacement projects. Through skype interview, it was confirmed from the CPA Implementer that the baseline survey in each area has been conducted and each household has been provided with one ICS after identification of the households under baseline survey /31/. Hence, no overlapping can happen.</p> <p>Further Validation team has also checked the UNFCCC website and confirm that CPAs are not registered as CDM projects in Myanmar, not included under other registered PoAs nor have been deregistered.</p> <p>Therefore the criterion met.</p>
	4.	Specification of technology/measure	<p>The CPA specifies the level and type of service as well as performance specification in line with the PoA-DD. Distributed ICSs have thermal efficiency of at least 20%, replacing conventional firewood cookstoves for biomass fired ICSs as defined in the PoA-DD.</p>	<ul style="list-style-type: none"> Performance test result 	<p>The ICS user is selected by CPA Implementer (MOALI) based on the Target Group defined in the PoA (i.e. no electricity access and currently using traditional wood stoves) through a baseline survey sheet /31/ as checked by the validation team and ICS are only distributed to the selected household as per baseline survey sheet /31/.</p> <p>The thermal efficiency of the ICS distributed in each CPAs will have efficiency of more than 20% in compliance with the applied methodology/18/.</p>

			Stove type replaced is defined in the CPA-DD.		Validation team reviewed the efficiency test conducted by the third party national lab and found that the efficiency for the ICSs pertaining to the CPAs were higher than 20% threshold. The lab test reports /09/ concluded the efficiency of cook stove as 28%. Therefore the criterion met.
	5.	Start date	The start date of CPA shall be on or after the start date of the PoA.	• The first set of conformity letter obtained during the stove distribution or the receipt of stove order	The CPA start date for all the CPAs have been confirmed from the conformity letters/06/. Validation team reviewed the start date of the CPAs to be included in the PoA and found them in compliance with the eligibility criteria stipulated in the PoA DD/02/. The start date of the PoA is 25/05/2018 which is before the start date of the CPAs to be included/02/. Therefore the criterion met.
	6.	Applicability of methodology	A CPA shall consist in the distribution of ICSs with efficiency improvements in thermal applications of non-renewable biomass /charcoal. ICS shall have a thermal efficiency of at least 20%.	• Performance test result	The lab test reports /09/ concluded the efficiency of cook stove as 28%. The ICS distributed under CPAs will have efficiency improvements in thermal applications as verified from Technical specifications /13/ of ICS. Therefore the criterion met. The test was conducted by Department of Industrial Chemistry, University of Yangon, National university of Myanmar. Based on the sectoral expertise, assessment team concludes that the methodology adopted for conducting the efficiencies were in compliance with the applied methodology /18/.
	7.	Additionality	The CPA includes solely of units that qualify as "microscale CDM units" as defined in the "Methodological tool 19: Demonstration of additionality of microscale	• Not applicable; refer to PoA-DD Section C for description	The additionality of the CPA is proved at the PoA level/02/. Also the CPA includes solely of units that qualify as "microscale CDM units" as defined in the "Methodological tool 19: Demonstration of additionality of microscale project activities" and is less than the 1% of the small scale threshold. Hence the CPA is automatically additional.

		project activities”, such that it is not required to meet the small-scale or microscale thresholds within those thresholds.		Hence, this condition is not applicable.
8.	Other requirements of AMS-II.G	Default leakage value (option c) applied which requires no survey	• Not applicable	Leakage adjustment factor (0.95) has been applied, hence this condition is not applicable.
9.	Local stakeholder consultations and environmental impact analysis	The local stakeholder consultation is conducted at the CPA level.	• Local stakeholder consultation report	The LSC is conducted at CPA level and validated by validation team through LSC supportive /11/. Therefore criteria met.
10.	Official development assistance	The CME shall confirm that in case of funding received from Annex I Parties, there were no diversion of Official Development Assistance.	• CPA-DD Appendix 2, if applicable	The assessment team confirms that no public funding or ODA was received nor diverted for implementation of the CPAs as mentioned in the respective CPA-DDs/01/ and confirmed during the skype interview with CME/CPA Implementer.
11.	Target group and distribution mechanisms	The target group in CPAs shall be households/SM Es; the ICSs shall be distributed to the endusers by CPA Implementers.	• Conformity letters • Database of project device distribution records	The distribution mechanism is appropriately defined in the PoA DD and it is categorically mentioned that the distribution mechanism is the direct distribution of ICS through the CME or regional partners. This was further confirmed through telephonic/skype interviews by the validation team. The end users of the CPAs are rural household. The Conformity letters/06/ for already distributed cook stoves were validated and some of the beneficiaries were checked by reviewing the captured vedios and it was concluded that beneficiaries are rural households and the ICS were distributed through the CPA implementer.
12.	Sampling	The CPA sampling plan shall comply the requirements as listed in the “Standard for sampling and surveys for CDM	• Sampling results (database and the ER sheet)	The sampling is in accordance with the PoA DD/02/ and the “Guidance for sampling and surveys for CDM project activities and programme of activities” /21/. Sampling has been defined under section B.4.6 of the

			project activities and programme of activities".		CPA-DDs /01/ and found in compliance with the PoA-DD /02/ and "Guidance for sampling and surveys for CDM project activities and programme of activities" Version 04 /21/. The same is assessed in detail in section D.6.1 of this report. Hence the condition is fulfilled.
	13.	Small-scale or microscale threshold	Not Applicable	• Not applicable	Para 124(m) of CDM PS PoA describes that the condition is not required if generic CPA consists solely of units that qualify as microscale CDM unit as defined in tool19 /26/. Hence, this criterion is not applied.
	14.	Debundling check	Not Applicable	• Not applicable	As each ICS unit to be distributed under the proposed CPA will qualify as micro scale units, the CPAs does not need to demonstrate fulfilment with the debundling requirement (version 09 of the "Tool for Demonstration of additionality of microscale projects"). Hence, this criterion is not applied.
Findings	CAR 05 was raised and successfully closed. Refer to Appendix 4 for further details.				
Conclusion	Validation team confirms that the all eligibility criteria included in PoA DD, version 06.1 /02/ are adequately included in CPAs and all criteria met the requirement of PoA DD.				

SECTION E. Internal quality control

>>

Following the completion of the assessment process and a recommendation by the assessment team, the validation opinion prepared by Team Leader is independently reviewed by internal Technical Reviewer. TR reviews if all the KBS procedures have been followed and all conclusions are justified in accordance with applicable standards, procedures, guidance and CDM decisions. The TR either is qualified for the technical area within the CDM sectoral scope(s) applicable to project activity or is supported by qualified independent technical expert at this stage.

The Technical Reviewer will either accept or reject the recommendation made by the assessment team. The findings can be raised at this stage and CME must resolve them within agreed timeline. The opinion recommended by Technical Reviewer will be confirmed by Manager Technical & Certification and finally authorized by the Managing Director on behalf of KBS as final validation opinion. The Technical Reviewer and Manager T&C maybe be same person.

SECTION F. Validation opinion

>>KBS Certification Services Pvt. Ltd. has been contracted by Climate Change Center (CME) to perform a validation of the CPAs:

1. CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 011
2. CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 012
3. CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 013
4. CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 014
5. CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 015
6. CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 016

7. CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 017
8. CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 018
9. CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 019
10. CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 020
11. CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 021
12. CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 022
13. CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 023
14. CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 024
15. CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 025
16. CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 026
17. CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 027
18. CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 028
19. CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 029
20. CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 030
21. CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 031
22. CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 032
23. CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 033
24. CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 034
25. CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 035
26. CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 036
27. CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 037
28. CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 038
29. CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 039
30. CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 040
31. CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 041
32. CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 042
33. CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 043
34. CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 044
35. CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 045
36. CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 046
37. CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 047
38. CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 048
39. CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 049
40. CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 050
41. CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 051
42. CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 052
43. CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 053
44. CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 054
45. CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 055
46. CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 056
47. CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 057
48. CCC PoA for distribution of ICS in developing countries (Myanmar): CPA 058

Host Party: The Republic of the Union of Myanmar

The validation was performed in accordance with the UNFCCC criteria for the Clean Development Mechanism, latest version of Validation and Verification Standard and related Standards/Guidance and host country criteria, as well as criteria given to provide for consistent project operations, monitoring and reporting.

The proposed CDM CPAs as part of registered PoA will result in reductions of greenhouse gas (GHG) emissions that are real, measurable and give long-term benefits to the mitigation of climate change. In our opinion, the project meets all relevant UNFCCC, CDM criteria and all relevant host country criteria.

The CPAs correctly applies methodology AMS II.G "Energy efficiency measures in thermal applications of non-renewable biomass", version 09. It is demonstrated that the project is not a likely baseline scenario. The emission reductions attributable to the project are hence additional to any that would occur in the absence of the project activity.

The total emission reductions from each CPA are estimated for the crediting period of 7 years as 21,656 tCO₂e/year.

The CPA will hence be recommended by the Validation team for request for registration (as part of inclusion in the registered PoA) with UNFCCC.

Appendix 1. Abbreviations

Abbreviations	Full Texts
AMS	Approved Methodology for Small-scale
BE	Baseline Emissions
CAR	Corrective Action Request
CDM	Clean Development Mechanism
CER	Certified Emission Reduction
CI	CPA Implementer
CL	Clarification request
CoP	Conference of Parties
CPA	Component Project Activity
CME	Coordinating/Managing Entity
DD	Design Document
DNA	Designated National Authority
DOE	Designated Operational Entity
DR	Document Review
EB	Executive Board
EF	Emission Factor
EIA	Environmental Impact Assessment
ER	Emission Reductions
FAR	Forward Action Request
FSR	Feasibility Study Report
GHG	Greenhouse gas(es)
GSC	Global Stakeholder Consultation
HCA	Host Country Approval
ICS	Improved Cook Stove
IPCC	Intergovernmental Panel on Climate Change
KP	Kyoto Protocol
LSC	Local Stakeholder Consultation
LE	Leakage Emissions
LoA	Letter of Approval/Authorization
LPG	Liquefied Petroleum Gas
IPCC	Intergovernmental Panel on Climate Change
MoM	Minutes of Meeting
MCS	Myanmar Ceramic Society
MOP	Meeting of Parties
MoC	Modalities of Communication
MoV	Means of Verification
MP	Monitoring Plan
MW	Mega Watt
NCV	Net Calorific Value
NGO	Non-Governmental Organisation
NWB	Non-renewable Woody Biomass
ODA	Official Development Assistance
PCIA	Partnership for clean indoor air
PoA	Programme of Activities
PE	PoA Emissions
QA/QC	Quality Assurance/Quality Control
RfR	Request for Registration
SD	Sustainable Development
T&C	Technical & Certification
TJ	Tera Joule
UNFCCC	United Nations Framework Convention on Climate Change
VVS	Validation & Verification Standard
WBT	Water Boiling Test

Appendix 2. Competence of team members and technical reviewers

Personnel Name:		Chetan Swaroop Sharma	
Qualified to work as:			
Team Leader	<input checked="" type="checkbox"/>	Technical Expert	<input checked="" type="checkbox"/>
Validator/Verifier	<input checked="" type="checkbox"/>	Financial Expert	<input checked="" type="checkbox"/>
Technical Reviewer	<input checked="" type="checkbox"/>	Local Expert (India)	<input checked="" type="checkbox"/>
Area(s) of Technical Expertise			
Sectoral Scope	Technical Area		
Energy industries (renewable/non-renewable sources)	TA 1.1: Thermal energy generation from fossil fuels and biomass including thermal electricity from solar		
	TA 1.2: Energy generation from renewable energy sources		
Energy Demand	TA 3.1. Energy demand		
Waste handling and disposal	TA 13.1. Solid waste and wastewater TA 13.2. Manure		
Approved by (Manager C & T)	Sanjay Kandari		
Approval date:	01/05/2017		

Personnel Name:		Rohit Badaya	
Qualified to work as:			
Team Leader	<input checked="" type="checkbox"/>	Technical Expert	<input checked="" type="checkbox"/>
Validator/Verifier	<input checked="" type="checkbox"/>	Financial Expert	<input checked="" type="checkbox"/>
Technical Reviewer	<input checked="" type="checkbox"/>	Local Expert (India)	<input checked="" type="checkbox"/>
Area(s) of Technical Expertise			
Sectoral Scope	Technical Area		
Energy industries (renewable/non-renewable sources)	TA 1.1: Thermal energy generation from fossil fuels and biomass including thermal electricity from solar		
	TA 1.2: Energy generation from renewable energy sources		
Energy demand	TA 3.1. Energy Demand		
Waste Handling and Disposal	TA 13.1 Solid waste and wastewater TA 13.2 Manure		
Approved By	Manager Competency & Training		
Approval date:	16/10/2017		

Personnel Name:		Ms. Shikha Sharma	
Qualified to work as:			
Team Leader	<input type="checkbox"/>	Technical Expert	<input type="checkbox"/>
Validator/Verifier	<input checked="" type="checkbox"/>	Financial Expert	<input type="checkbox"/>
Technical Reviewer	<input type="checkbox"/>	Local Expert	<input type="checkbox"/>
Area(s) of Technical Expertise			
Sectoral Scope	Technical Area		
-	-		
Approved by (Manager C & T)	Sanjay Kandari		

Approval date:	26/11/2019
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Personnel Name:		Ms. Deboshmita Dey	
Qualified to work as:			
Team Leader	<input type="checkbox"/>	Technical Expert	<input type="checkbox"/>
Validator/Verifier	<input checked="" type="checkbox"/>	Financial Expert	<input type="checkbox"/>
Technical Reviewer	<input type="checkbox"/>	Local Expert	<input type="checkbox"/>
Area(s) of Technical Expertise			
Sectoral Scope		Technical Area	
-		-	
Approved by (Manager C & T)		Sanjay Kandari	
Approval date:		26/11/2019	

(Technical reviewer) Personnel Name:		Sanjay Kandari	
Qualified to work as:			
Team Leader	<input checked="" type="checkbox"/>	Technical Expert	<input checked="" type="checkbox"/>
Validator/Verifier	<input checked="" type="checkbox"/>	Financial Expert	<input checked="" type="checkbox"/>
Technical Reviewer	<input checked="" type="checkbox"/>	Local Expert (India)	<input checked="" type="checkbox"/>
Area(s) of Technical Expertise			
Sectoral Scope		Technical Area	
Energy Industries (renewable/non-renewable sources)		TA 1.1: Thermal energy generation from fossil fuels and biomass including thermal electricity from solar	
Energy industries (renewable/non-renewable sources)		TA 1.2: Energy generation from renewable energy sources	
Energy demand		TA 3.1. Energy Demand	
Waste Handling and Disposal		TA 13.1 Waste Handling and Disposal TA 13.2 Manure	
Approved by (Manager C & T)		Akhilesh Joshi	
Approval date:		11/12/2015	

Personnel Name:		Mr. Zaw Zaw Han	
Qualified to work as:			
Team Leader	<input type="checkbox"/>	Technical Expert	<input type="checkbox"/>
Validator/Verifier	<input type="checkbox"/>	Financial Expert	<input type="checkbox"/>
Technical Reviewer	<input type="checkbox"/>	Local Expert (Myanmar)	<input checked="" type="checkbox"/>
Area(s) of Technical Expertise			
Sectoral Scope		Technical Area	
-		-	
Approved by (Manager C & T)		Sanjay Kandari	
Approval date:		03/06/2017	

Appendix 3. Documents reviewed or referenced

No.	Author	Title	References to the document	Provider
1.	Climate Change Center	/1.1/ Initial CPA-DDs for CPA#011 to CPA#058 /1.2/ Final CPA-DDs for CPA#011 to CPA#058	Version 01, dated 30/01/2020 for CPA#011 to CPA#058 Version 1.1, dated 30/03/2020 for CPA#011 to CPA#058	Climate Change Center
2.	2.1. Climate Change Center	Registered PoA DD for the PoA Ref. No. 10471 "The Project of CCC program of Activities (PoA) for Distribution of Improved Cookstoves (ICS) in Developing South and Southeast Asia Countries (Myanmar)".	Version 06.1, dated 03/05/2019	UNFCCC Website
	2.2. Korean Standards Association	Validation report for the PoA Ref. No. 10471 "The Project of CCC program of Activities (PoA) for Distribution of Improved Cookstoves (ICS) in Developing South and Southeast Asia Countries (Myanmar)".	Version 03.2, dated 03/05/2019	UNFCCC Website
3.	Climate Change Center	Technical review record to include the proposed CPAs (CPA#011 to CPA#058)	-	Climate Change Center
4.	Climate Change Center	Training records to CPA implementer and the training material	May, 2019	Climate Change Center
5.	KBS Certification Services Pvt. Ltd.	Validation contract between KBS Certification Services Pvt. Ltd. And Climate Change Center	Dated 15/01/2020	KBS Certification Services Pvt. Ltd.
6.	Climate Change Center	Conformity letter signed by household who has received project device under proposed 48 CPAs (First Conformity letter)	-	Climate Change Center
7.	Climate Change Center.	Spread sheets for Emission Reduction Calculations for CPA#011 to CPA#058.	Version 01 , dated 30/01/2020 for CPA#011 to CPA#058	Climate Change Center
8.	Climate Change Center	Stove distribution record database	Feb, 2020	Climate Change Center
9.	Department of Industrial Chemistry, University of Yangon Partnership for Clean Indoor Air (PCIA)	(WBT) Efficiency test report for E-FREE ICS WBT Protocol	Dated 10/10/2018 Dated 01/10/2009	Climate Change Center
10.	Climate Change Center	Payment record for cookstoves order	-	Climate Change Center

11.	Climate Change Center	Local stakeholder documents including Invitation Letters (public invitation letter, village announcement posting, personal contacts), List of attendees, photos of consultation etc. Presentation material for Local Stakeholder Consultation dated May 2019	-	Climate Change Center
12.	Climate Change Center	Sample Self-assessment form, Integrated data template	-	Climate Change Center
13.	Myanmar Ceramic Society	Technical/manufacturer specifications of the ICSs	-	Climate Change Center
14.	Ministry of Natural Resources and Environmental Conservation	Official letter for CERs sharing with Government of Myanmar	Dated 15/10/2018	Climate Change Center
15.	UNFCCC	CDM VVS for CDM PoAs	Version 02	UNFCCC Website
16.	UNFCCC	CDM PS for CDM PoAs	Version 02	UNFCCC Website
17.	UNFCCC	CDM PCP for CDM PoAs	Version 02	UNFCCC Website
18.	UNFCCC	AMS II. G “Energy efficiency measures in thermal applications of non-renewable biomass”	Version 09	UNFCCC Website
19.	UNFCCC	Instruction to fill the CPA design document	Version 09	UNFCCC Website
20.	UNFCCC	CDM-CPA-DD-FORM	Version 09	UNFCCC Website
21.	UNFCCC	Guidance for sampling and surveys for CDM project activities and programme of activities	Version 04	UNFCCC Website
22.	Climate Change Center	Contract between CME and MCS to supply contract	Dated 13/08/2019	Climate Change Center
23.	UNFCCC	Methodological tool: “Demonstration of additionality of small-scale project activities” Version 12	Version 12	UNFCCC Website
24.	UNFCCC	Standard: Sampling and surveys for CDM project activities and programmes of activities	Version 08	UNFCCC Website
25.	UNFCCC	Glossary of CDM terms	Version 10	UNFCCC Website
26.	UNFCCC	Methodological tool: Demonstration of additionality of microscale project activities	Version 09	UNFCCC Website
27.	Myanmar Ceramic Society	Supportive for lifespan of E-FREE cookstoves from manufacturer	-	CME
28.	Myanmar Ceramic Society	Production manual for E-FREE cook stove	dated 18/05/2018	CME
29.	Climate Change Center	CME’s Project Management Manual	Feb 2020	CME

30.	Climate Change Center	Justification with microscale capacity (Excel sheet)	-	CME
31.	Climate Change Center	Baseline survey for the efficiency of the baseline stove- Baseline survey checklist sheet for all the 48 CPAs	-	CME
32.	Climate Change Center	Source for the value of 3.29 (Bold,i,j) https://cdm.unfccc.int/Panels/ssc_wg/meetings/033/ssc_033_an08.pdf	-	CME
33.	UNFCCC	TOOL30: Calculation of the fraction of non-renewable biomass	Version 01	UNFCCC Website
34.	CME	Remote Monitoring ICS User/Local stakeholder/CPA Implementer/CME/ICS Manufacturer Interview records	-	CME
35.	Ministry of Environmental Conservation and Forestry Environmental Conservation Department Myanmar (DNA of Myanmar)	Letter of Approval from Host country Myanmar	Dated: 02/10/2018	CME
36.	Ministry of Trade, Industry and Energy	Letter of Approval from Korea	LoA dated 30/08/2019 from Republic of Korea	CME
37.	CME	Modalities of Communication Statement (Version 03.0)	Dated 25/03/2019	CME

Appendix 4. Clarification requests, corrective action requests and forward action requests

Table 1. CLs from this validation

CL ID	01	Section no.	D.3	Date: 27/03/2020
Description of CL				
Under heading “ Description of this CPA in relation to the criterion and supporting evidence ” of Eligibility criteria 3 mentions “The CME has reviewed and confirmed with the CI that the districts chosen for this CPA as well as the households in the districts are never involved in stove replacement projects.” However few CPAs /01/ (under section A.2 of CPA-DD) have same townships even same GPS coordinates e.g. CPA 014 mentions distribution of ICS in “Nga Pu Taw” township and also CPA 015 mentions that the ICS will be distributed in “Nga Pu Taw” township along with “Kangyidaunt” township. Even the GPS coordinates are identical between both these CPAs.				
CME response				Date: 30/03/2020
<i>Under the administrative division in Myanmar, there are hundreds of villages under the same township. Therefore, even if the township name is the same, the physical range of the project is not the same. In other words, in the same township different villages are included in different CPAs. We selected only the households that meet the conditions specified in the CPA and no village is duplicated in CPAs.</i>				
<i>For more information, please find the ‘Appendix 20. Pre-checklist_baseline survey.xlsx’ we submitted on March 25.</i>				
Documentation provided by CME				
-				
DOE assessment				Date: 31/03/2020

The justification provided by CME was found to be acceptable. The ICS user is selected by CPA Implementer (MOALI) based on the Target Group defined in the PoA (i.e. no electricity access and currently using traditional wood stoves) through a baseline survey sheet /31/ as checked by the validation team and ICS are only distributed to the selected household as per baseline survey sheet /31/. Hence, CL 01 is closed.

CL ID	02	Section no.	D.3	Date: 27/03/2020
Description of CL				
Under section A.2 of all the CPA-DDs /01/, CME needs to clarify the basis of the mentioned GPS coordinates.				
CME response				Date: 30/03/2020
As we mentioned above, dozens to hundreds of villages are included in each CPA. We considered it was difficult to mention the GPS of each village in the document. In addition, it was not possible to know the exact GPS coordinate of each village using tools such as google map.				
Therefore, the GPS coordinate mentioned in the CPA-DD is based on the address of the township office of MOALI, the CI of our project.				
Documentation provided by CME				
-				
DOE assessment				Date: 31/03/2020
The clarification provided by CME was found to be acceptable. Hence, CL 02 is closed.				

CL ID	03	Section no.	D.9	Date: 27/03/2020
Description of CL				
The details mentioned under local stakeholder consultation English Extract of CPA-058 are not consistent with the CPA-DD for CPA 58 /01/.				
CME response				Date: 30/03/2020
Correct local stakeholder consultation English Extract is attached.				
Documentation provided by CME				
Hsipaw Local Stakeholder Consultation (English Version).docx				
DOE assessment				Date: 31/03/2020
The local stakeholder consultation details of the Hsipaw township is now consistent with the CPA-DD for CPA 058/01/ and with other supportive LSC documents /11/. Hence, CL 03 is closed.				

Table 2. CARs from this validation

CAR ID	01	Section No.	D.2	Date: 27/03/2020
Description of CAR				
Minor:				
1. CME needs to check the formatting of the cover page of all the CPA-DDs/01/ and delete the row mentioning "Complete this form in accordance with the instructions attached at the end of this form".				
CME response				Date: 30/03/2020
The sentence was deleted under all CPA-DDs based on the DOE's comment.				
Documentation provided by CME				
Revised CPA-DDs				
DOE assessment				Date: 31/03/2020
The formatting of the cover page of all the revised CPA-DD/01/ is now corrected and found OK. Hence, CAR 01 is closed.				

CAR ID	02	Section No.	D.5.2	Date: 27/03/2020
Description of CAR				
1. Under section B.4.5 of all the CPA-DDs /01/, the link "http://www.pciaonline.org/testing" is not functional. 2. For the monitoring parameter "B _{y=1,new,i,j,survey} " (Under section B.4.5 of all the CPA-DDs/01/), CME is referring to section "I.7.2" of the CPA-DD however the same could not be found.				
CME response				Date: 30/03/2020
1. The broken link was replaced by a new one under section B.4.5 of all CPA-DDs which is from Clean Cooking Alliance. This was confirmed by UN CDM team that since the link "http://www.pciaonline.org/testing" is not working, we can refer to Clean Cooking Alliance link "https://www.cleancookingalliance.org/technology-and-fuels/testing/protocols.html" alternatively. 2. The referring section was corrected to 'B.4.6' under all CPA-DDs.				
Documentation provided by CME				

<i>Revised CPA-DDs</i>	
DOE assessment	Date: 31/03/2020
1. The new reference link provided in the revised CPA-DDs/01/ is now functional. 2. The referring section has been corrected from "I.7.2" to "B.4.6" in the revised CPA-DDs/01/. Hence, CAR 02 is closed.	

CAR ID	03	Section No.	D.2	Date: 27/03/2020
Description of CAR				
As per the "Instructions for completing this form" available under Component project activity design document form (Version 09.0), CME need to Complete CPA-DD form using the same format without modifying its font, headings or logo, and without any other alteration to the form.				
In CPA-DD for CPA 011/01/, the sequencing of appendix is incorrect. The "Contact Information of CPA Implementers" should start with "Appendix 1" instead of "Appendix 2".				
CME response				Date: 30/03/2020
<i>The incorrect sequence was revised in CPA-DD for CPA 011.</i>				
Documentation provided by CME				
<i>Revised CPA-DDs</i>				
DOE assessment				Date: 31/03/2020
In revised CPA-DD for CPA 011/01/, the sequencing of appendix is now corrected and found OK. Hence, CAR 03 is closed.				

CAR ID	04	Section No.	D.3	Date: 27/03/2020
Description of CAR				
Under section A.2 and E.1 of CPA-DD for CPA 036/01/, the mentioned CPA number is incorrect.				
CME response				Date: 30/03/2020
<i>The CPA number was corrected under section A.2 and E.1 of CPA-DD for CPA 036.</i>				
Documentation provided by CME				
<i>Revised CPA-DDs</i>				
DOE assessment				Date: 31/03/2020
The CPA number is now consistent throughout the revised CPA-DD for CPA 036/01/. Hence, CAR 04 is closed.				

CAR ID	05	Section No.	D.10	Date: 27/03/2020
Description of CAR				
Under section F of all the CPA-DDs/01/, the start date of the CPA is inconsistent with section C.1 of the CPA-DDs/01/.				
CME response				Date: 30/03/2020
<i>The date was updated for all the CPA-DDs based on the first ICS distribution date in each CPA.</i>				
Documentation provided by CME				
<i>Revised CPA-DDs</i>				
DOE assessment				Date: 31/03/2020
The start date of the CPA in section F is now consistent with section C.1 of the revised CPA-DDs/01/. Hence, CAR 05 is closed.				

Table 3. FARs from this validation

FAR ID	Xx	Section No.		Date: DD/MM/YYYY
Description of FAR				
CME response				Date: DD/MM/YYYY
Documentation provided by CME				
DOE assessment				Date: DD/MM/YYYY

Document information

<i>Version</i>	<i>Date</i>	<i>Description</i>
03.0	31 May 2019	Revision to: <ul style="list-style-type: none"> • Ensure consistency with version 02.0 of the “CDM validation and verification standard for programmes of activities” (CDM-EB93-A08-STAN); • Make editorial improvements.
02.0	29 December 2017	Revision to align with the requirements of the “CDM validation and verification standard for programme of activities” (version 01.0).
01.0	4 May 2015	Initial publication.
Decision Class: Regulatory Document Type: Form Business Function: Registration Keywords: component project activity, validation report		