

**SMALL-SCALE CDM PROGRAMME ACTIVITY DESIGN DOCUMENT FORM
(CDM-SSC-CPA-DD) - Version 01**



NAME /TITLE OF THE PoA: CFL lighting scheme -- “Bachat Lamp Yojana”.



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**CLEAN DEVELOPMENT MECHANISM
SMALL-SCALE PROGRAM ACTIVITY DESIGN DOCUMENT FORM (CDM-SSC-CPA-DD)
Version 01**

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NOTE:

- (i) This form is for submission of CPAs that apply a small scale approved methodology using the provision of the proposed small scale CDM PoA.
- (ii) The coordinating/managing entity shall prepare a CDM Small Scale Programme Activity Design Document (CDM-SSC-CPA-DD)^{1,2} that is specified to the proposed PoA by using the provisions stated in the SSC PoA DD. At the time of requesting registration the SSC PoA DD must be accompanied by a CDM-SSC CPA-DD form that has been specified for the proposed SSC PoA, as well as by one completed CDM-SSC CPA-DD (using a real case). After the first CPA, every CPA that is added over time to the SSC PoA must submit a completed CDM-SSC CPA-DD.

¹ The latest version of the template form CDM-CPA-DD is available on the UNFCCC CDM web site in the reference/document section.

² At the time of requesting validation/registration, the coordinating managing entity is required to submit a completed CDM-POA-DD, the PoA specific CDM-CPA-DD, as well as one of such CDM-CPA-DD completed (using a real case).

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SECTION A. General description of small scale CDM programme activity (CPA)

A.1. Title of the small-scale CPA:

>> CFL lighting scheme – “Bachat Lamp Yojana” in <SSC-CPA to complete citing location, DISCOM circle etc)

Version Number: 0X

Date: dd/mm/yyyy

A.2. Description of the small-scale CPA:

>> The SSC-CPA shall refer to BLY-PoA document section A.4.2 and A.4.2.1 to complete this section. Project general operating framework and specific details may be included. For example:

The project is developed under the Small-Scale Programme of Activities (PoA) titled “CFL Lighting Scheme: Bachat Lamp Yojana” (BLY). The BEE will act as the coordinating/managing entity under the PoA, ABC Limited (ABC) will act as the SSC-CPA Implementer (CPA Implementer).

This project will distribute a maximum of 4 CFLs to approximately 196,690 consumers in the Utility circle, Lakes Division of <state>, India, to replace an equal number of ICLs (Project). CFLs will be distributed to those registered, grid connected consumers who freely decide to replace ICLs for CFLs. The Project aims to replace ICLs for CFLs in the following order³.

| Percentage of distributed CFLs | Type of CFLs | Replaced ICLs |
|--------------------------------|--------------|---------------|
| 0% | 9 – 10 CFLs | 40W ICLs |
| 34% | 14W CFLs | 60W ICLs |
| 66% | 23W CFLs | 100W ICLs |

The CPA Implementer aims to install CFLs with those ICLs that are placed in high hourly usage areas, such as outdoors, common areas, living room area and kitchen. The CPA Implementer in cooperation with the DISCOM will do this by virtue of an awareness campaign educating households that only in case the CFLs are placed in high usage areas, maximum energy savings and subsequent cost savings can be achieved. The participating households will need to sign an agreement with the CPA Implementer forbidding them to re-sell the CFLs. The replaced ICLs will be destroyed so as to ensure these are not used elsewhere.

Distribution of CFLs and collection of ICLs will be carried out by distribution teams which will visit the households ‘door-to-door’ and/or through so-called collection point owned by the DISCOM where households are invited to replace the ICLs with CFLs.

The Project will ensure the appropriate and environmentally friendly system of disposal/recycling of the CFLs which fuse during the program, and also the ICLs such that they are not reused in the market. The

³ Please note that the actual CFL distribution mix will be determined during the distribution process

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disposal system for fused CFLs will be in line with sustainable practices and available facilities for e-Waste disposal and the Central Pollution Control Board (CPCB).

Reduced energy demand from the households participating in the Project will lead to the reduction in air pollution and greenhouse gas (GHG) emissions resulting from the burning of fossil fuels for electricity production.

A.3. Entity/individual responsible for the small-scale CPA:

>> Here the information on the entity/individual responsible of the CPA shall be included, hence forth referred to as CPA implementer(s). CPA implementers can be project participants of the PoA, under which the CPA is submitted, provided their name is included in the registered PoA. *For example*

CPA Implementer(s)

The SSC-CPA implementer will be the ABC Ltd. ABC Ltd will act as the prime investor and be responsible for overall implementation and management of the Project in close association with the following entities:

- DISCOM
- Manufacturer Ltd
- etc

The contact details are as listed in Annex 1.

Project participants under SSC-CPA.

Project participants are defined as either

1. a Party involved, which has indicated to be a project participant, or
2. a private and/or public entity authorized by a Party involved to participate in a CDM project activity.

| Name of Party involved ((host indicates a host Party) | Private and/or public entity(ies) project participants (as applicable) | Kindly indicate if the Party involved wishes to be considered as project participant (Yes/No) |
|--|---|--|
| India (Host) | BEE (Public entity) | No |
| <indicate in CPA> | ABC (Private entity) | <indicate in CPA> |

The SSC-CPA investors voluntarily become project participant under this scheme as per the tripartite agreement signed with BEE. The complete list of such investors is regularly updated and made available on the BEE website <http://www.bee-india.nic.in/content.php?id=2> .

Note: It is clarified that it is logistically not feasible for the managing entity to seek DNA approvals from all involved parties (except host party), and the same has to be sought by the SSC-CPA investor



concerned. Hence it is essential that SSC-CPA project participant(s) be defined in the SSC-CPA-DD.

SSC-CPA Unique Identification Number

The SSC-CPA shall write the assigned unique code by the PoA managing entity viz. BEE. The code as assigned by BEE to his SSC-CPA is 001-CQC-AP.

A.4. Technical description of the small-scale CPA:

A.4.1. Identification of the small-scale CPA:

>> State: XYZ

DISCOM:

Circle: Utility circle, Lakes Division

A.4.1.1. Host Party:

>>India

A.4.1.2. Geographic reference or other means of identification allowing the unique identification of the small-scale CPA (maximum one page):

>>Geographic reference or other means of identification⁴, Name/contact details of the entity/individual responsible for the CPA, e.g. in case of stationary CPA geographic reference, in case of mobile CPAs means such as registration number, GPS devices. [For example](#)

Latitude / longitude of DISCOM circle etc

< SSC-CPA location / DISCOM Map >

A.4.2. Duration of the small-scale CPA:

A.4.2.1. Starting date of the small-scale CPA:

>> dd/mm/yyyy

For example- date of signing the Tri-partite agreement (TPA) in-between BEE, CPA implementer and DISCOM or date of purchasing or distributing the CFLs

A.4.2.2. Expected operational lifetime of the small-scale CPA:

>> The CPA operational life cannot be more than that of the distributed CFLs. This period is defined by the rated life of the CFLs.

For example if CFL rated life is 10,000 hours then taking usage as 3.5 hours per 24 hours, the project operational lifetime is 7.8 years.

⁴ E.g. in case of stationary CPA geographic reference, in case of mobile CPAs means such as registration number, GPS devices.



A.4.3. Choice of the crediting period and related information:

Fixed Crediting period: the project operational lifetime or 10 years or BLY PoA lifetime (whichever is less)

A.4.3.1. Starting date of the crediting period:

>> dd/mm/yyyy; end date of the CFL distribution process as indicated by the CPA Implementer.

A.4.3.2. Length of the crediting period, first crediting period if the choice is renewable CP:

>>

NOTE: Please note that the duration of crediting period of any CPA shall be limited to the end date of the PoA regardless of when the CPA was added..

A.4.4. Estimated amount of emission reductions over the chosen crediting period:

>>for example

| Year | Estimation of annual emission reductions (tonnes of CO ₂ e) |
|--|--|
| 2009 | 0 |
| 2010 | 40,965 |
| 2011 | 46,793 |
| 2012 | 43,611 |
| 2013 | 40,225 |
| 2014 | 35,416 |
| 2015 | 31,026 |
| 2016 | 26,541 |
| 2017 | 21,136 |
| 2018 | 759 |
| 2019 | 0 |
| Total estimated reductions | 286,471 |
| Total number of crediting years | 10 years |
| Annual average | 26,043 |

A.4.5. Public funding of the CPA:

>>SSC-CPA implementer to provide “*Information on sources of public funding for the project activity from Parties included in Annex I which shall provide an affirmation that such funding does not result in a diversion of official development assistance and is separate from and is not counted towards the financial obligations of those Parties;*”

A.4.6. Information to confirm that the proposed small-scale CPA is not a de-bundled component

>>As per section A.4.4.1 of the BLY PoA, the SSC-CPA is exempt from performing de-bundling check.

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A.4.7. Confirmation that small-scale CPA is neither registered as an individual CDM project activity or is part of another Registered PoA:

>> Confirmation that this Project will be neither registered as an individual CDM activity or is part of another Registered PoA. Should the CPA Implementer be undertaking another similar project activity in the same region, then confirmation that the households are uniquely identified and are not overlapping.

SECTION B. Eligibility of small-scale CPA and Estimation of emissions reductions

B.1. Title and reference of the Registered PoA to which small-scale CPA is added:

>> CFL lighting scheme – “Bachat Lamp Yojana”.

Version: <provide version of PoA>

B.2. Justification of the why the small-scale CPA is eligible to be included in the Registered PoA :

>> With reference to BLY-PoA section A.4.2.2, The eligibility criteria under the SSC-PoA shall be stated and confirmed in each SSC-CPA document by the SSC-CPA investors:

| S. No | Eligibility Criteria | Status |
|-------|--|--|
| 1 | SSC-CPA follows the baseline and monitoring methodology AMS IIJ | <input type="checkbox"/> Yes / <input type="checkbox"/> No |
| 2 | The geographical boundary of the SSC-CPA area is uniquely defined by SSC-CPA investor at own cost e.g. using Geographical Information System (GIS), DISCOM maps, local district maps etc. | <input type="checkbox"/> Yes / <input type="checkbox"/> No |
| 3 | CFLs distributed under the scheme: <ul style="list-style-type: none"> - are distributed to grid-connected households - independent rated lifetime testing as per international / national standards (refer Annex 4) - conform to the IS : 15111:2002 requirements - Rs 15 is collected from households, along with ICL | <input type="checkbox"/> Yes / <input type="checkbox"/> No <input type="checkbox"/> Yes / <input type="checkbox"/> No <input type="checkbox"/> Yes / <input type="checkbox"/> No <input type="checkbox"/> Yes / <input type="checkbox"/> No |
| 4 | Confirm to have signed PoA liability indemnity agreement with BEE | <input type="checkbox"/> Yes / <input type="checkbox"/> No |
| 5 | Valid and signed tripartite agreement with DISCOM and BEE, specifying the duties and responsibilities under a SSC-CPA. | <input type="checkbox"/> Yes / <input type="checkbox"/> No |
| 6 | Confirm to use CFL operational hours a 3.5 hours per 24 hour period. | <input type="checkbox"/> Yes / <input type="checkbox"/> No |
| 7 | Commitment towards collection and destruction of the ICLs generated out of SSC-CPA project and CFL disposal as per the applicable | <input type="checkbox"/> Yes / <input type="checkbox"/> No |

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| | | |
|---|---|---|
| | directions of MoEF / State Pollution Control Board. | |
| 8 | Confirmation that this SSC-CPA is not registered or being registered, as a stand-alone CDM project outside of BLY SSC-PoA. | <input type="checkbox"/> Yes / <input type="checkbox"/> No |
| 9 | Confirmation that SSC-CPA is not a de-bundled component of another large-scale CPA or CDM project activity as per the latest guidance given in CDM EB. As per EB 47, the BLY SSC-CPA-DD need not justify de-bundling refer PoA DD Section A.4.4.1). | <input checked="" type="checkbox"/> Yes / <input type="checkbox"/> No |

B.3. Assessment and demonstration of additionality of the small-scale CPA , as per eligibility criteria listed in the Registered PoA:

Additionality Demonstration

Description of the barriers at PoA level is provided in provided in section A.4.3. The SSC-CPA shall adapt the arguments presented as per recent available information and project specific data to support CPA additionality.

NOTE: SSC-CPA is free to use the latest version of the CDM large scale additionality tool provided, the CPA is seeking additional project recognition viz. Gold standard etc which require use of this tool.

Additionality Assessment (refer PoA section E.5.2)

| S No | Barrier | SSC-CPA Self-Assessment |
|------|---|--|
| A | Barrier at household consumer level | |
| 1 | High initial capital cost of CFL | <input type="checkbox"/> Significant barrier <input type="checkbox"/> Not Significant barrier |
| 2 | Lack of consumer information | <input type="checkbox"/> Significant barrier <input type="checkbox"/> Not Significant barrier |
| 3 | Doubts that promised savings will accrue | <input type="checkbox"/> Significant barrier <input type="checkbox"/> Not Significant barrier |
| 4 | Consumer Bias towards ICL | <input type="checkbox"/> Significant barrier <input type="checkbox"/> Not Significant barrier |
| B | Barrier at market level | |
| 1 | Un-sustainable institutional framework to promote CFLs in India | <input type="checkbox"/> Significant barrier <input type="checkbox"/> Not Significant barrier |
| C | Investment Barrier | <input type="checkbox"/> Significant barrier <input type="checkbox"/> Not Significant barrier |

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| | | |
|---|---|--|
| 1 | Over-seas Development Assistance (ODA) funding utilised for SSC-CPA | <input type="checkbox"/> Yes <input type="checkbox"/> No |
|---|---|--|

B.4. Description of the sources and gases included in the project boundary and proof that the small-scale CPA is located within the geographical boundary of the registered PoA.

>> The project boundary is the physical, geographical location of each measure (i.e. each CFL) installed. The CFL installed is energy efficient in comparison to the comparable conventional incandescent lamp (ICL) and by virtue of installation in grid-connected households, reduces the need for electricity.

The electricity is supplied by the grid which is pre-dominantly fossil fuel based. Therefore, in-directly GHG emissions (CO₂) from grid-connected power plants are reduced. Other sources/ gases are deemed negligible.

| | Source | Gas | Included? | Justification / Explanation |
|-------------------------|---|------------------|-----------|--|
| Baseline | Power plants serving the electricity grid | CO ₂ | Included | Main emission source. |
| | | CH ₄ | Excluded | Excluded for simplification. This emission source is assumed to be very small. |
| | | N ₂ O | Excluded | Excluded for simplification. This emission source is assumed to be very small. |
| Project Activity | Power plants serving the electricity grid | CO ₂ | Included | Main emission source. |
| | | CH ₄ | Excluded | Excluded for simplification. This emission source is assumed to be very small. |
| | | N ₂ O | Excluded | Excluded for simplification. This emission source is assumed to be very small. |

B.5. Emission reductions:

B.5.1. Data and parameters that are available at validation:

>>refer BLY-PoA section E.6.3 and apply

B.5.2. Ex-ante calculation of emission reductions:

>>refer BLY-PoA section E.6.2 and apply equations as per project values

B.5.3. Summary of the ex-ante estimation of emission reductions:

>>

| Year | Estimation of project activity emissions (tonnes of CO ₂ e) | Estimation of baseline emissions (tonnes of CO ₂ e) | Estimation of leakage (tonnes of CO ₂ e) | Estimation of overall emission reductions (tonnes of CO ₂ e) |
|--------|--|--|---|---|
| Year A | | | | |
| Year B | | | | |

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| | | | | |
|--|--|--|--|--|
| Year C | | | | |
| Year ... | | | | |
| Total (tonnes of CO ₂ e) | | | | |

B.6. Application of the monitoring methodology and description of the monitoring plan:

B.6.1. Description of the monitoring plan:

>>Refer BLY-PoA section E.7.2 and adapt as per project circumstance

C.1. Please indicate the level at which environmental analysis as per requirements of the CDM modalities and procedures is undertaken. Justify the choice of level at which the environmental analysis is undertaken:

- This information is provided at the PoA level.
SSC-CPA need not complete sections C.2. and C.3 of this form.

C.2. Documentation on the analysis of the environmental impacts, including transboundary impacts:

>> Not applicable

C.3. Please state whether an environmental impact assessment is required for a typical CPA, included in the programme of activities (PoA), in accordance with the host Party laws/regulations:

>> Not applicable

SECTION D. Stakeholders' comments

>>

D.1. Please indicate the level at which local stakeholder comments are invited. Justify the choice:

- This information is provided at the PoA level.
SSC-CPA need not complete sections D.2. to D.4 of this form.

D.2. Brief description how comments by local stakeholders have been invited and compiled:

>> Not applicable

D.3. Summary of the comments received:

>> Not applicable

D.4. Report on how due account was taken of any comments received:

>> Not applicable

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Annex 1

CONTACT INFORMATION ON ENTITY/INDIVIDUAL RESPONSIBLE FOR THE SMALL-SCALE CPA

| | |
|------------------|--|
| Organization: | |
| Street/P.O.Box: | |
| Building: | |
| City: | |
| State/Region: | |
| Postfix/ZIP: | |
| Country: | |
| Telephone: | |
| FAX: | |
| E-Mail: | |
| URL: | |
| Represented by: | |
| Title: | |
| Salutation: | |
| Last Name: | |
| Middle Name: | |
| First Name: | |
| Department: | |
| Mobile: | |
| Direct FAX: | |
| Direct tel: | |
| Personal E-Mail: | |

Annex 2

INFORMATION REGARDING PUBLIC FUNDING

Annex 3

BASELINE INFORMATION

Annex 4

MONITORING INFORMATION
