



Monitoring report form (Version 03.1)

Consolidated Monitoring report

Title of the Programme of Activities	CFL lighting scheme – “Bachat Lamp Yojana”
Reference number of the Programme of Activities	PoA 3223
Version number of the consolidated monitoring report	01.2
Completion date of the consolidated monitoring report	17/09/2013
Registration date of the Programme of Activities	29/04/2010
Monitoring period number and duration of this monitoring period	First Monitoring Period Duration: 30/05/2010 to 31/12/2012(both days inclusive);
Coordinating / Managing Entity	Bureau of Energy Efficiency
Project participant(s)	1) Bureau of Energy Efficiency 2) C- Quest Capital Malaysia Limited
Host Party(ies)	India
Sectoral scope(s) and applied methodology(ies)	Sectoral Scope 3 : Energy demand; Applied Methodology: AMS-II.J. , Version 03
Estimated amount of GHG emission reductions or net anthropogenic GHG removals by sinks for this monitoring period in the registered PoA-DD	2,623,292 tCO ₂ e
Actual GHG emission reductions or net anthropogenic GHG removals by sinks achieved in this monitoring period	683,099 tCO ₂ e
Number of CPA(s) included as on last date of this monitoring period	50 (till 31/12/2012)

SECTION A. Description of project activity**A.1. Purpose and general description of project activity**

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The purpose of the Bachat Lamp Yojana (BLY) project activity is to replace the conventional incandescent lamps (ICLs) by compact fluorescent lamps (CFLs) in the residential grid connected households. Under the BLY scheme, up to four, long-life quality CFLs¹ were distributed to grid-connected residential households in exchange of one ICL and INR 15 for one CFL. The reduction in total power demand through the energy saving achieved has resulted a reduction of greenhouse gases (GHG) emissions that would otherwise being emitted during production of the equivalent amount of power in grid connected mostly fossil fuel based power plants.

In CFLs, the electrical current from the ballast flows through the gas, causing it to emit ultraviolet radiations. The phosphor coating converts the ultraviolet radiation emitted to visible light spectrum. CFLs are much more energy efficient than ICLs. The efficiency of ballast-integrated CFL typically ranges from 51 to 56 lumen/Watt, which is 4 to 5 times higher than an equivalent ICL. Consequently, CFLs consume only 1/4th to 1/5th of the energy used by ICLs to provide the same level of light output.

The CFLs distributed under the project activity would deliver at least the replaced ICL equivalent lumens as derived from the Indian national standard IS 418:2004 for ICLs. Also, the technical specifications of the CFLs conform to IS 15111:2002.

The distribution of CFLs and replacement of previously used ICLs in households in the CPA area was using one or more of the following methods:

- direct installation at each household; and/or
- ICL collection and CFL distribution through dedicated distribution points as advertised by the CPA owner in the local media e.g. local DISCOM offices, retail outlets, resident association offices, schools etc.

The implementation chronology is presented in section B.1 of this monitoring report.

The implementation of the CPAs (under this PoA) covering this monitoring period has resulted in achieving 683,099 tonnes of CO₂ equivalent of greenhouse gas emission reductions.

A.2. Location of project activity

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The political/geographical boundary of India is the PoA boundary.

The country latitude of 22° 00' N and longitude of 77° 00' E. (referred from http://www.mapsofworld.com/lat_long/india-lat-long.html).

The geographical location of the individual CPAs included under this PoA is listed in [Annexure 1](#).

The unique geographic location of the applied measure (CFLs) in household is determined using the household consumer number provided by utility and/or the household physical address.

A.3. Parties and project participant(s)

Party involved ((host) indicates a host Party)	Private and/or public entity(ies) project participants (as applicable)	Indicate if the Party involved wishes to be considered as project participant (Yes/No)
India (host)	Bureau of Energy Efficiency (Public entity)	No

¹ In India IS 15111 standard specifies a minimum 6000 hours rated life time. Long life quality CFLs in BLY context thus meet IS 15111 requirements and have an average rated life of 6000 hours and above.

Netherlands	C- Quest Capital Malaysia Limited (Private Entity)	No
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A.4. Reference of applied methodology

Applied Methodologies –
AMS-II.J. “Demand-side activities for efficient lighting technologies” (Version 3.0)

AMS-I.D. “Grid connected renewable electricity generation” (Applicable version at the time of inclusion of individual CPA-DDs)

Applied Tool-
“Tool to calculate the emission factor for an electricity system” (Applicable version at the time of inclusion of individual CPA-DDs)

A.5. Crediting period of project activity

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Type: Fixed Crediting Period for each CPA under the PoA.

PoA Life time: 20/11/2007 to 19/11/2035 (28 years)

Start Date: The CPA(s) specific crediting period start date is listed in [Annexure 2](#).

Length: The CPA(s) specific crediting period length is listed under [Annexure 2](#).

The CPA(s) specific monitoring period is listed under [Annexure 2](#).

SECTION B. Implementation of project activity

B.1. Description of implemented registered project activity

Under this PoA, fifty (50) CPAs have been included as of end date of the present monitoring period. Out of these included CPAs, forty one (41) have been implemented. The remaining nine (9) CPAs are yet to be implemented.

The implementation of the project activity involves the distribution of up to four (4) long life quality CFLs per household to the grid connected residential households of the CPA area. One CFL is distributed in exchange of one ICL and INR 15. The CPA specific implementation chronology is presented in [Annexure 3](#).

The DISCOM (Distribution company) maintains a database of domestic users identifiable on the basis of a unique connection number and/or address used for billing purposes. The distribution activities were carried out by first accessing this consumer database of the grid connected residential consumers from the CPA area.

The potential recipient households were educated to install the CFL in high-usage areas, such as outdoors, common areas, living room area and kitchen to maximize the energy savings. The distribution of CFLs and replacement of previously used ICLs in households in the CPA area was done using one or more of the following methods:

- Direct installation at each household; and/or
- Dedicated distribution points as advertised by the CPA investor in the local media e.g. local DISCOM offices, retail outlets, resident association offices, schools etc.

B.2. Post registration changes

B.2.1. Temporary deviations from registered monitoring plan or applied methodology

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B.2.2. Corrections

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B.2.3. Permanent changes from registered monitoring plan or applied methodology

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B.2.4. Changes to project design of registered project activity

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B.2.5. Changes to start date of crediting period

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Changes to start date of crediting period of CPAs were communicated to UNFCCC by CME and the same was approved. The supporting will be submitted to verifying DOE.

B.2.6. Types of changes specific to afforestation or reforestation project activity

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SECTION C. Description of monitoring system

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As per applied methodology AMS–II.J., the monitoring for the SSC-CPA would be carried out at the following levels:

1. CFL distribution
2. Ex-post Monitoring Survey
3. ICL destruction
4. CFL Destruction

1. CFL Distribution

The CFLs will be distributed by the SSC-CPA owner with support from DISCOM, using one or more of the following methods:

- direct installation at each household; and/or
- ICL collection and CFL distribution through dedicated distribution points as advertised by the SSC-CPA owner in the local media e.g. local DISCOM offices, retail outlets, resident association offices, schools etc.

2. Ex-post Monitoring SurveyRandom Selection of households

For any proposed SSC-CPA area, the database listing all residential households eligible under the SSC-CPA will be randomly selected under the monitoring survey. The sampling is as per following criteria:

Sampling Criteria

1. The survey should cover the SSC-CPA area, covering the residential sector only,
2. Random sample group be determined using statistical tools as representing the households falling under the SSC-CPA area. Survey sample size shall be determined to have at-least 90% confidence

level with 10 % maximum margin of error².

Ex-post Monitoring Survey

In addition to the survey requirements as stated in Annexure 4, the following should be included:

1. Visit identified households and assess the following for each household:

- a. Does the installed CFL carry BLY logo : Yes / No
- b. Is the installed CFL operating : Yes / No

The data will be collected and collated centrally by the SSC-CPA.

3. ICL Destruction

Replaced ICLs would be collected from the household or from dedicated CFL distribution points as advertised by the SSC-CPA owner in the local media e.g. local DISCOM offices, retail outlets, resident association offices, schools, community centres etc.

The collected ICLs would be stored till their destruction.

At the beginning of each monitoring interval y , SSC-CPA will verify whether the number of distributed CFLs is less than or equal to the number of returned and destroyed ICLs in the SSC-CPA area.

The destruction of ICLs should be documented and the number and power of the ICLs recorded to allow for random verification by the DOE.

4. CFL Destruction

At the beginning of each monitoring interval y , SSC-CPA will compile and update record of the number of fused project CFLs collected from households.

Where required under regulation, the destruction of CFLs should be documented and the number and power of the CFLs recorded. These records would be accessible to the DOE.

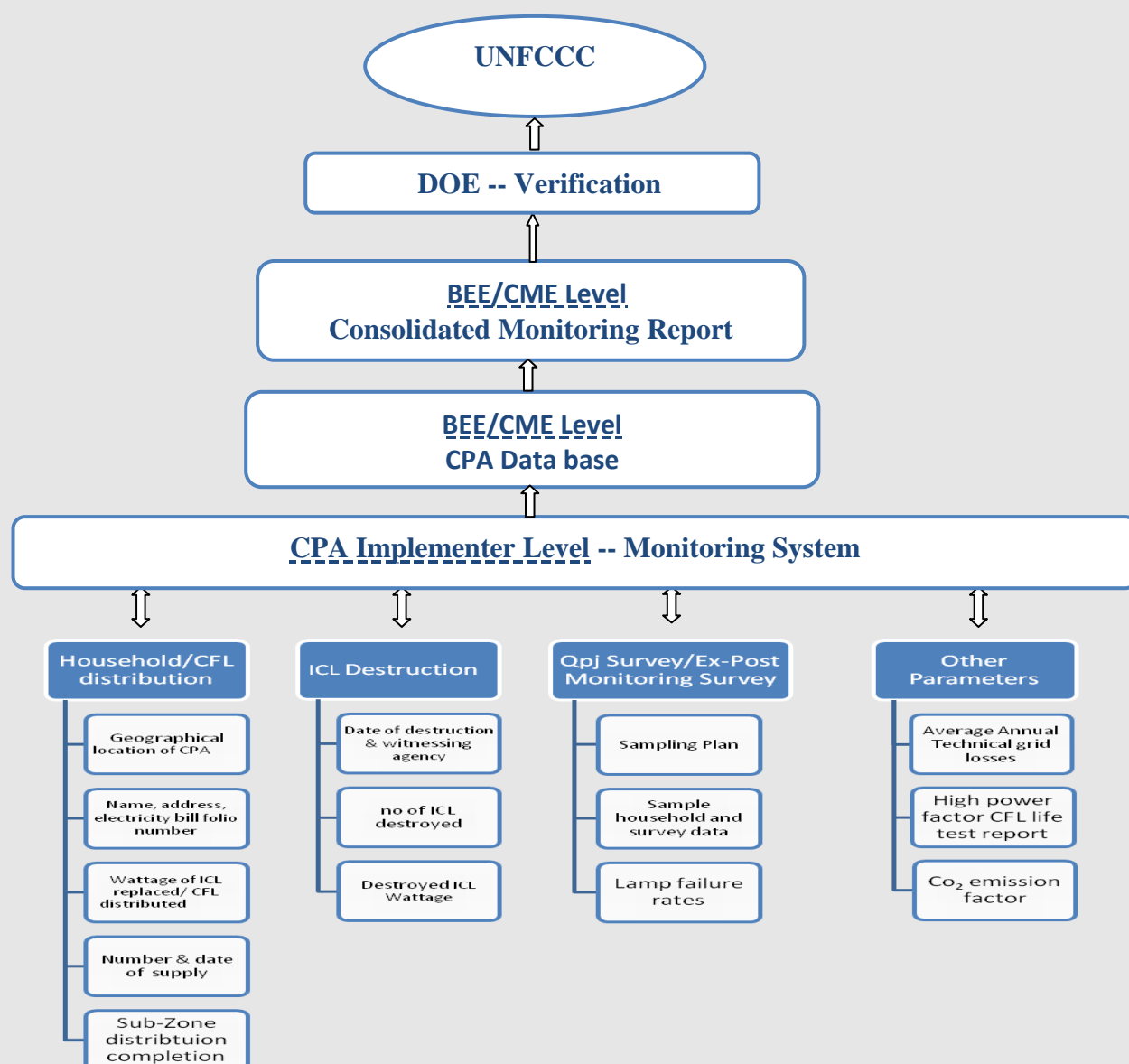
The overall supervision is maintained by the BEE as PoA Coordinating and Managing Entity (CME), whereas on-ground implementation takes place by the CPA implementer(s) in association with DISCOM. This is as per the tri-partite agreement in-between BEE, CPA-implementer(s) and the DISCOM operating in the CPA area. The broad overview of monitoring responsibilities envisaged under the CPA is tabulated below.

Step	Description	Responsibility		
		BEE*	DISCOM	SSC-CPA Implementer
1	Determination of the SSC-CPA area		√	√
2	Establishment of the SSC-CPA implementation plan		√	√
3	Selection of households to be included in the monitoring survey		√	√
4	CFL distribution to the households		√	√
5	Establishment of the SSC-CPA database	√		√
6	Monitoring surveys		√	√
6	Verification of the number of 'destroyed ICLs' and 'distributed CFLs'	√	√	√
7	Reports for estimation of emission reductions	√		√

Supervisory responsibility.

The overall monitoring system is outlined as under. This summarizes the key elements of the hierarchy and data monitoring plan for CPAs, highlighting responsible entities and their tasks, interaction channels among them, and the key monitoring parameters.

² As per AMS-II.J ver03 methodology

Monitoring System for Bachat Lamp Yojana

As shown in the above diagram, the monitoring system comprises of four data streams managed by the CPA implementer(s) to determine the emission reductions attributable to each CPA. These are described as under;

Household data/CFL distribution data base :

- Project database: A list of households participating in each CPA including name, address, electricity bill folio number, number and wattage of ICL exchanged and CFL distributed, date of distribution and completion of distribution. The project database will record the start and end dates of each monitoring period and the emission reductions attributable for the monitoring period.
- Double counting prevention: Distributed CFL unique identification list, CFL dispatch records

ICL Destruction data base

The ICLs collected at the time of the CFLs distribution in the CPA area were stored safely in appropriate boxes. The ICL is considered destroyed if it is rendered non-functional. The destruction method(s) followed were:

- Crushing

- Separating ICL shell and cap

The method of ICL destruction and disposal was as per the applicable national standards/requirements. The records of the ICL destruction duly verified by the responsible witness are submitted to the CME. These records are maintained by CME under the BLY database.

SECTION D. Data and parameters

D.1. Data and parameters fixed ex ante or at renewal of crediting period

Data/Parameter:	EF _{CO₂,ELEC,y}	
Unit:	tCO _{2e} /MWh	
Description:	CO ₂ emission factor for displacement of electricity in the grid serving the household consumers that participate in the SSC-CPA during the monitoring interval y, calculated according to the applied version of AMS-I.D. (tCO _{2e} /MWh)	
Source of data:	CDM baseline CO ₂ emission database by Central Electricity Authority (CEA) (versions 4.0, 5.0 and 6.0), India as stated in respective included CPA-DD.	
Value(s) applied:	SSC-CPA UNFCCC Ref No	Value applied
	3223-0001	0.856
	3223-0002 to 3223-0028	0.9027
	3223-0029 to 3223-0034	0.903
	3223-0036 to 3223-0042	
	3223-0034 to 3223-0035	0.9035
	3223-0043 to 3223-0050	0.865
Purpose of data:	Emission reduction calculation (Only the emission reduction formula is provided in the methodology)	
Additional comment:	--	

Data/Parameter:	O _i
Unit:	Hours / day
Description:	Average daily operating hours of the baseline ICLs of the group of "I",
Source of data:	AMS-II.J. version 03 default value
Value(s) applied:	3.5 hours per 24 hours period
Purpose of data:	Emission reduction calculation (Only the emission reduction formula is provided in the methodology)
Additional comment:	--

Data/Parameter:	X _i
Unit:	Hours / year
Description:	Operating hours per year for CFL type i
Source of data:	Calculated value
Value(s) applied:	1,277.5 hours per 365 day year; 1,281 hours for leap year
Purpose of data:	Emission reduction calculation (Only the emission reduction formula is provided in the methodology)
Additional comment:	--

Data/Parameter:	NTG
Unit:	--

Description:	Net-to-gross adjustment factor
Source of data:	Default AMS-II.J. value
Value(s) applied:	0.95
Purpose of data:	Emission reduction calculation (Only the emission reduction formula is provided in the methodology)
Additional comment:	--

Data/Parameter:	L_i																										
Unit:	Hours																										
Description:	rated average operating hours for CFL type i (i.e. CFL rated lifetime)																										
Source of data:	Life test reports of CFLs																										
Value(s) applied:	<table border="1"> <thead> <tr> <th>SSC-CPA UNFCCC Ref No</th><th>Value applied</th></tr> </thead> <tbody> <tr> <td>3223-0001</td><td>10,000</td></tr> <tr> <td>3223-0022 to 3223-0029</td><td></td></tr> <tr> <td>3223-0031 to 3223-0032</td><td></td></tr> <tr> <td>3223-0036 to 3223-0039</td><td></td></tr> <tr> <td>3223-0041</td><td></td></tr> <tr> <td>3223-0043 to 3223-0045</td><td></td></tr> <tr> <td>3223-0049 to 3223-0050</td><td></td></tr> <tr> <td>3223-0002 to 3223-0021</td><td>6,000</td></tr> <tr> <td>3223-0030</td><td>--</td></tr> <tr> <td>3223-0033 to 3223-0035</td><td></td></tr> <tr> <td>3223-0040 & 3223-0042</td><td></td></tr> <tr> <td>3223-0046 to 3223-0048</td><td></td></tr> </tbody> </table> <p>Note: '- ' refers to un-implemented SSC-CPA(s)</p>	SSC-CPA UNFCCC Ref No	Value applied	3223-0001	10,000	3223-0022 to 3223-0029		3223-0031 to 3223-0032		3223-0036 to 3223-0039		3223-0041		3223-0043 to 3223-0045		3223-0049 to 3223-0050		3223-0002 to 3223-0021	6,000	3223-0030	--	3223-0033 to 3223-0035		3223-0040 & 3223-0042		3223-0046 to 3223-0048	
SSC-CPA UNFCCC Ref No	Value applied																										
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3223-0049 to 3223-0050																											
3223-0002 to 3223-0021	6,000																										
3223-0030	--																										
3223-0033 to 3223-0035																											
3223-0040 & 3223-0042																											
3223-0046 to 3223-0048																											
Purpose of data:	Emission reduction calculation (Only the emission reduction formula is provided in the methodology)																										
Additional comment:	For example 6,000, 10,000 hrs, etc.																										

Data/Parameter:	High PF CFL life test report and test curves
Unit:	--
Description:	Life test reports of CFLs
Source of data:	Obtained from accredited manufacturer or laboratory

Value(s) applied:	<table><tr><th>SSC-CPA UNFCCC Ref No</th><th>High PF CFL Curves Provided</th></tr><tr><td>3223-0001 3223-0022 to 3223-0029 3223-0031 to 3223-0032 3223-0036 to 3223-0039 3223-0041 3223-0043 to 3223-0045 3223-0049 to 3223-0050</td><td>Yes , to the verifying DOE</td></tr><tr><td>3223-0002 to 3223-0021</td><td>Provided at the time of SSC-CPA inclusion. Again provided to the verifying DOE</td></tr><tr><td>3223-0030 3223-0033 to 3223-0035 3223-0040 & 3223-0042 3223-0046 to 3223-0048</td><td>--</td></tr></table>	SSC-CPA UNFCCC Ref No	High PF CFL Curves Provided	3223-0001 3223-0022 to 3223-0029 3223-0031 to 3223-0032 3223-0036 to 3223-0039 3223-0041 3223-0043 to 3223-0045 3223-0049 to 3223-0050	Yes , to the verifying DOE	3223-0002 to 3223-0021	Provided at the time of SSC-CPA inclusion. Again provided to the verifying DOE	3223-0030 3223-0033 to 3223-0035 3223-0040 & 3223-0042 3223-0046 to 3223-0048	--
	SSC-CPA UNFCCC Ref No	High PF CFL Curves Provided							
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	3223-0002 to 3223-0021	Provided at the time of SSC-CPA inclusion. Again provided to the verifying DOE							
3223-0030 3223-0033 to 3223-0035 3223-0040 & 3223-0042 3223-0046 to 3223-0048	--								
Note: '- ' refers to un-implemented SSC-CPA(s)									
Purpose of data:	Emission reduction calculation (Only the emission reduction formula is provided in the methodology)								
Additional comment:									

D.2. Data and parameters monitored

Data/Parameter:	$Q_{PJ,i}$
Unit:	Number
Description:	Number of CFLs of the group of “i” CFLs (e.g. 20W CFL) in operation during the first 12 months of distribution
Measured/ Calculated/ Default:	Calculated from survey data
Source of data:	SSC-CPA database
Value(s) of monitored parameter:	No of grid connected household consumers numbers in project area Annexure 4
	Actual number of CFLs distributed per household consumer number (max is four) Annexure 4
	$Q_{PJ,i}$ Annexure 4
Monitoring equipment:	-
Measuring/Reading/ Recording frequency:	Once in the crediting period (within 1 year from end date of distribution of CFLs)

Calculation method (if applicable):	<p>The Q_{pi} value for each type of CFL is calculated from the results of Q_{pi} survey, as follows:</p> <ul style="list-style-type: none"> Obtain the ratio of the number lamps of type <i>i</i> with BLY logo found installed & operating in the sample households and the number of lamps of type <i>i</i> claimed to be distributed in the sample households Multiply the ratio obtained by the total number of lamps of type <i>i</i> claimed to be distributed in the CPA area The claimed number of lamps is capped by the number of ICLs destroyed.
QA/QC procedures:	Use of standardized data forms and compliance protocols of SSC-CPA.
Purpose of data:	Emission reduction calculation (Only the emission reduction formula is provided in the methodology)
Additional comment:	-

Data/Parameter:	LFR _{i,y}
Unit:	%
Description:	Lamp Failure Rate for CFL type <i>i</i> in year <i>y</i> (fraction)
Measured/ Calculated/ Default:	Calculated based on survey results
Source of data:	Ex-post monitoring survey
Value(s) of monitored parameter:	LFR _{i,y} = Refer Annexure 5
Monitoring equipment:	-
Measuring/ Reading/ Recording frequency:	To be done in - 1) once every 3 years; or 2) once for every 30% of the elapsed rated lifetime of the lamp
Calculation method (if applicable):	It is 100 minus the percentage of CFL's, of type <i>i</i> , with BLY logo found installed and operating during the ex post monitoring survey.
QA/QC procedures:	Use of standardized data forms and compliance protocols of SSC-CPA.
Purpose of data:	Emission reduction calculation (Only the emission reduction formula is provided in the methodology)
Additional comment:	Ex post survey result will be compared with the ex-ante LFR value from linear failure rate curve (for type <i>i</i>) and conservative value will be considered for emission reduction calculation.

Data/Parameter:	<i>Lamp distribution data</i>
Unit:	--
Description:	The start and completion date of CFL distribution, Utility consumer number of CFL recipient households under the SSC-CPA entered into the SSC-CPA database.
Measured/ Calculated/ Default:	Measured (and recorded in CPA database)
Source of data:	SSC-CPA Database

Value(s) of monitored parameter:	<table border="1"> <tr> <td>Distribution of CFLs-Start date</td> <td>Refer Annexure 3</td> </tr> <tr> <td>Distribution of CFLs- Completion date</td> <td>Refer Annexure 3</td> </tr> </table>		Distribution of CFLs-Start date	Refer Annexure 3	Distribution of CFLs- Completion date	Refer Annexure 3
Distribution of CFLs-Start date	Refer Annexure 3					
Distribution of CFLs- Completion date	Refer Annexure 3					
Monitoring equipment:	-					
Measuring/ Reading/ Recording frequency:	Once in the crediting period					
Calculation method (if applicable):	-					
QA/QC procedures:	Use of standardized data forms and compliance protocols of SSC-CPA.					
Purpose of data:	Emission reduction calculation (Only the emission reduction formula is provided in the methodology)					
Additional comment:	-					

Data/Parameter:	N
Unit:	--
Description:	Sample size of Monitoring Survey
Measured/ Calculated/ Default:	Calculated
Source of data:	Calculated value as per statistical analysis provided in PoA-DD and CPA-DD Annexure 4
Value(s) of monitored parameter:	Number of households: Refer Annexure 5
Monitoring equipment:	-
Measuring/ Reading/ Recording frequency:	Once at the time of each survey.
Calculation method (if applicable):	Calculated as mentioned in the Annexure 4 of respective CPA-DDs.
QA/QC procedures:	The SSC-CPA determined the representative sample size with minimum 90% confidence interval and 10% maximum error margin. The actual number of households to be surveyed arrived at by dividing the value of "N" with the average number of CFLs distributed per household. The SSC-CPA implementer(s) may choose a sample size higher than the one calculated.
Purpose of data:	Emission reduction calculation (Only the emission reduction formula is provided in the methodology)
Additional comment:	Also refer "N" parameter table under section B.6.1 of respective CPA –DDs.

Data/Parameter:	P _{i, BL}
Unit:	W
Description	Rated power of the baseline ICLs of the group of "i"
Measured/ Calculated/ Default:	Measured / Calculated

Source of data:	Weighted average calculated using rated power of the baseline ICLs as recorded in SSC-CPA database
Value(s) of monitored parameter:	Three types of ICLs have been considered for distribution-100 W, 60 W and 40 W. The SSC-CPA specific applicable values may be referred at Annexure 9
Monitoring equipment:	-
Measuring/ Reading/ Recording frequency:	Once in the crediting period
Calculation method (if applicable):	Weighted average
QA/QC procedures:	Use of standardized data forms and compliance protocols of SSC-CPA.
Purpose of data:	Emission reduction calculation (Only the emission reduction formula is provided in the methodology)
Additional comment:	-

Data/Parameter:	$P_{i,PJ}$
Unit:	W
Description:	Rated power of the CFLs of the group of "I" lighting devices (Watts)
Measured/Calculated /Default:	Calculated
Source of data:	Weighted average calculated using rated power of the CFLs as recorded in SSC-CPA database
Value(s) of monitored parameter:	Values may be referred at Annexure 9
Monitoring equipment :	
Measuring/Reading/ Recording frequency:	Once in the crediting period
Calculation method (if applicable):	Weighted average
QA/QC procedures:	Use of standardized data forms and compliance protocols of SSC-CPA.
Purpose of data:	Emission reduction calculation (Only the emission reduction formula is provided in the methodology)
Additional comment:	-

Data/Parameter:	$N_{Destroyed}$
Unit:	Number
Description:	Number of ICLs collected and destroyed
Measured/ Calculated /Default:	Measured (recorded)
Source of data:	SSC-CPA database
Value(s) of monitored parameter:	Refer Annexure 6 for the CPAs in which destruction of ICLs have been carried out.
Monitoring equipment:	--

Measuring/Reading/Recording frequency:	Once in the crediting period
Calculation method (if applicable):	--
QA/QC procedures:	The destruction records of baseline ICLs are documented and verifiable by DOE.
Purpose of data:	--
Additional comment:	--

Data/Parameter:	TD_y
Unit:	%
Description:	Average annual technical grid losses
Measured/Calculated/Default:	--
Source of data:	Published DISCOM data by an official governmental body or 10 % Default AMS-II.J. option
Value(s) of monitored parameter:	Refer <u>Annexure 7</u>
Monitoring equipment:	-
Measuring/Reading/Recording frequency:	Yearly
Calculation method (if applicable):	-
QA/QC procedures:	This value is not including any non-technical losses such as commercial losses (e.g., theft/pilferage).
Purpose of data:	Emission reduction calculation (Only the emission reduction formula is provided in the methodology)
Additional comment:	

D.3. Implementation of sampling plan

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Under this PoA sampling is required for determining the number of CFLs placed in service and operating (*ex-post* $Q_{PJ,i}$ survey) and CFL failure rate (*ex-post monitoring surveys for* $LFR_{i,v}$).

All CPAs under this monitoring period carried out first ex post monitoring survey integrating " $Q_{PJ,i}$ " survey and the " $LFR_{i,v}$ " survey.

Sampling Criteria adopted

3. Participating households under the CPA area
4. Random sample group determined using statistical tools as representing the households falling under the CPA area. Survey sample size was determined to have at-least 90% confidence interval and 10 % maximum margin of error³.

The distributed CFLs in the CPA project area surveyed as per the applied methodology AMS-II.J. for the following two(2) monitoring parameters:

- 1) " $Q_{PJ,i}$ " (number of CFLs with BLY logo, installed and operating), where the Q_{PJ} number is fixed for the

³ As per AMS-II.J. ver03 methodology

entire crediting period;

Sampling Design –

The sampling is carried out as per the sampling plan design described in the [Annexure 4](#) of the included SSC-CPA-DD. The survey records are maintained under the BLY database. The monitoring surveys were carried out by third parties. The survey procedures were established and implemented to ensure that the field data collection is performed properly and any potential intentional errors or unintentional errors are minimized and documented.

Considering that from a BLY scheme point of view, each of the households holds an equal probability of being identified from a DISCOMs active residential household customer base, hence simple random sampling was used.

To ensure random selection, random number generators were applied. Each household was allotted a unique CPA serial number starting at 1 and up to the total number of households in CPA area. Using random number generators, the serial number were randomly chosen. The random number thus obtained is correlated with the utility provided residential customer code.

Data Collection –

The following activities were done before collecting the data from households as per the section E.7.2 of registered PoA –DD

- Detailed instructions were given to the survey agency/surveyor(s) on data collection procedures and determination of household sample size.
- Standardized data forms were developed and were used for the data collection during Survey(s).

Accordingly, an appropriate statistically robust sample size for conducting the monitoring survey has been used (Refer [Annexure 5](#) for summary of data collected during survey).

Data Analysis -

The data collected through the standard forms through the surveys was compiled and collated. CPA Baseline, Survey Baseline and Survey findings were determined after conducting survey as follows:

CPA Baseline: From the CPA household database for all the CPA households, the total number of CFLs distributed with BLY logo was taken for each wattage type 'i'.

Survey Baseline: From the CPA household database for the selected sample of households, the total number of CFLs distributed with BLY logo was taken for each wattage type 'i'.

Survey Findings: From the survey findings for the selected sample of households, the total number of BLY logo CFLs installed and operating was found for each wattage type 'i'.

The Q_{PJ} value for each type of CFL type 'i' is calculated as presented in $Q_{PJ,i}$ table of section D.2

= Ratio of (Survey Findings/Survey Baseline) x CPA Baseline, for each wattage type.

To be conservative, the calculated $Q_{PJ,i}$ is compared with the number of ICLs destroyed and minimum of the two is taken as the final $Q_{PJ,i}$ value. The claimed number of lamps is capped by the number of ICLs destroyed.

The calculated Q_{PJ} values are presented in [Annexure 4](#).

Confidence/ Precision -

The applied methodology AMS-II.J. ver03 requires a minimum 90% confidence interval and the 10% maximum error margin. Annexure 4 of respective CPA-DDs has been followed to achieve this level of precision.

2) "LFR_{i,v}" (lamp failure rate of type i) in the CPA area.

Sampling Design –

The CPA follows the sampling approach described in the Annexure 4 of the respective CPA -DDs.

The surveyor appointed by the CPA implementer shall -

- a. Randomly select a sample of households from CPA household database. The number of households to be included in the sample should be equal to or more than the calculated values mentioned in Annexure 4 of the included CPA-DDs.
- b. For the identified households the survey shall identify the number of CFLs for each type of wattage 'i' with BLY logo which are installed and not operating
- c. CFLs replaced as a part of regular maintenance or warranty program can be counted as operating. However CFLs cannot be replaced as part of this survey and counted as operating.

Data Collection –

The following activities were done before collecting the data from households as per the section E.7.2 of registered PoA -DD

- Detailed instructions were given to the survey agency/surveyor(s) on data collection procedures and determination of household sample size.
- Standardized data forms were developed and were used for the data collection during Survey(s).

Accordingly, an appropriate statistically robust sample size for conducting the monitoring survey has been used (Refer [Annexure 5](#) for summary of data collected during survey).

Data Analysis –

The data collected through the standard forms through the surveys was compiled and collated centrally.

Survey Baseline and Survey findings were determined after conducting survey as follows:

Survey Baseline: From the CPA household database for the selected sample of households, the total number of CFLs distributed with BLY logo was taken for each wattage type.

Survey Findings: From the survey findings for the selected sample of households, the total number of BLY logo CFLs installed and operating was found for each wattage type.

The Lamp Failure Rate is calculated as

$$= 1 - (\text{Survey Findings} / \text{Survey Baseline}), \text{ for each wattage type } i.$$

The value of the $LFR_{i,v}$ considered for the calculation of the emission reductions is higher of the value obtained from:

- a) The life test curve submitted by CFL manufacturer/ accredited laboratory for the CFLs distributed in the CPA area
- b) The ex-post monitoring survey results.

The calculated LFR values are presented in [Annexure 5](#).

The subsequent linear failure rate curve shall be reconstructed for the remaining crediting period based on the slope determined from step (a) and (b) above. This reconstructed curve shall be valid for credit issuance for either 3 years or 30% of the elapsed rated life of the lamp, selected as the minimum frequency of the ex-post monitoring survey in the section B.5.2 of the included CPA-DDs.

Confidence / Precision -

The applied methodology AMS-II.J. ver03 requires a minimum 90% confidence interval and the 10% maximum error margin. Annexure 4 of respective CPA-DDs has been followed to achieve this level of precision.

SECTION E. Calculation of emission reductions or GHG removals by sinks

>>

To calculate the emission reductions from a CPA area, the equations under the CPA-DD section B.5.2 are applied as per project values. This is illustrated below for the data values of the SSC-CPA UNFCCC ref no 3223-0022. For emission reduction values of individual CPAs, refer Annexure 8

Q_{pi,i} Calculation

The Q_{pi,i} value is obtained from the findings of the Q_{pi,i} survey as follows:

i	1	2	3	Parameter Description
D _i	0	72496	507408	Total no. of ICLs of type "i" destroyed, as per ICL destruction records
Z _i	0	72496	507408	Total no. of CFLs of type "i" claimed to be distributed, as per CPA household database
C _i	0	72496	507408	Minimum of CFLs claimed 'Z' and ICLs destroyed 'D'.
S _i	0	1060	8097	No. of CFLs of type "i" distributed in sample households identified for Q _{pi} survey, as per CPA household database
F _i	0	1042	7637	No. of BLY logo CFLs of type "i" found installed and operating in the sample households during Q _{pi} survey

$$Q(pj, i) = \frac{F(i)}{S(i)} \times C(i)$$

i	1	2	3	
Q _{pi,i}	0	71264.9	478582	No. of CFLs of type "i" in operation during the first 12 months of distribution

The values for all CPAs are presented in [Annexure 5](#).

Lamp Failure Rate Calculation

The LFR value is calculated from the findings of the ex-post monitoring survey as follows:

i	1	2	3	
B _i	0	1060	8097	No. of CFLs of type "i" distributed in the sample households selected for ex-post monitoring survey, as per the CPA household database
A _i	0	1042	7637	No. of BLY logo CFLs of type "i" found installed and operating in the sample households during the monitoring survey

$$LFR_{i,y} = \frac{B_i - A_i}{B_i}$$

i	1	2	3	
$LFR1_{i,y}$	0.00%	1.70%	5.68%	Lamp Failure Rate for CFL of type "i" in year y calculated from survey findings
$LFR2_{i,y}$	0.00%	6.39%	6.39%	Lamp Failure Rate for CFL of type "i" in year y as per section B.5.2 of CPA-DD
$LFR_{i,y}$	0.00%	6.39%	6.39%	Maximum of LFR1 and LFR2

The values for all CPAs are presented in [Annexure 7](#).

Estimated Annual Energy Savings

i	1	2	3	
$P_{i,BL}$	40	60	100	Rated power of the baseline ICLs of type "i" (Watts)
$P_{i,PJ}$	0	11	18	Rated power of the project CFLs of type "i" (Watts)
O_i	3.5	3.5	3.5	Average daily operating hours of the baseline ICLs of type "i" (hrs)

$$ES_i = (P_{i,BL} - P_{i,PJ}) \times O_i \times 365 / 1000$$

i	1	2	3	
ES_i	0	90.72	151.82	Estimated annual electricity savings for lamp of type "i" (kWh)

The values for all CPAs are presented in Annexure 7.

Net Energy Savings

i	1	2	3	
$Q_{PJ,i}$	0	71264.9	478582	No. of CFLs of type "i" in operation during the first 12 months of distribution
TD_y	20%	20%	20%	Average annual technical grid losses (%)
NTG	0.95	0.95	0.95	Net-to-gross adjustment factor

$$NES_y = \sum_i Q_{PJ,i} \times (1 - LFR_{i,y}) \times ES_i \times [1 / (1 - TD_y)] \times NTG$$

i	1	2	3	
$NES_{i,y}$	0	7457	83798	Net electricity saved in year y (kWh)

The values for all CPAs are presented in Annexure 7.

Emission Reductions

i	1	2	3	
NES _y	91255			Net electricity saved in year y (kWh)
EF _{CO2,Elec,y}	0.85	0.85	0.85	CO2 emission factor for displacement of electricity in the grid serving the household consumers (tCO ₂ e/MWh)

$$ER_y = NES_y \times EF_{CO2,ELEC,y} / 1000$$

i	1	2	3	
ER _y	77932			Emission Reductions in year y (tCO ₂ e)

The values for all CPAs are presented in Annexure 8.

The implementation of this PoA resulted in greenhouse gas emission reduction of 683,099 tonnes of CO2 equivalent during the current monitoring interval.

E.1. Calculation of baseline emissions or baseline net GHG removals by sinks

>>Not Applicable

E.2. Calculation of project emissions or actual net GHG removals by sinks

>> Not Applicable

E.3. Calculation of leakage

>> Not Applicable

E.4. Summary of calculation of emission reductions or net anthropogenic GHG removals by sinks

For this monitoring period the values are tabulated as under for PoA:

Item	Baseline emissions or baseline net GHG removals by sinks (t CO ₂ e)	Project emissions or actual net GHG removals by sinks (t CO ₂ e)	Leakage (t CO ₂ e)	Emission reductions or net anthropogenic GHG removals by sinks (t CO ₂ e)
Total	6,83,099	-	-	6,83,099

The values for all SSC-CPAs are presented in [Annexure 8](#).

E.5. Comparison of actual emission reductions or net anthropogenic GHG removals by sinks with estimates in registered PDD

Item	Values estimated in ex-ante calculation of registered PDD	Actual values achieved during this monitoring period
Emission reductions or GHG removals by sinks (t CO ₂ e)	26,23,292	6,83,099

Refer [Annexure 8](#)

E.6. Remarks on difference from estimated value in registered PDD

>>

Actual Value is less than the estimated value.

E.7. Actual emission reductions or net anthropogenic GHG removals by sinks during the first commitment period and the period from 1 January 2013 onwards

Item	Actual values achieved up to 31 December 2012	Actual values achieved from 1 January 2013 onwards
Emission reductions or GHG removals by sinks (t CO ₂ e)	6,83,099	-

Annexure 1 - Geographical location of the SSC-CPAs included under the BLY-PoA (refer MR Section A.2)

(Note: Abbreviations used under State column KR – Karnataka; PB- Punjab; AP-Andhra Pradesh; DL-Delhi; GO-Goa; KL-Kerala)

CME CPA Identification No.	UNFCCC CPA Ref No.	State	DISCOM	Circle	District	Division	latitude	longitude
001-CQC-AP	3223-0001	AP	APCPDCL (Central Power Distribution Company of Andhra Pradesh Limited)	Ranga Reddy North	Ranga Reddy	Habsiguda	21.125498	81.914063
021-EMC-KL	3223-0002	KL	Kerala State Electricity Board	Thiruvananthapuram Urban Circle	Thiruvananthapuram	Thiruvananthapuram, Kazhakuttam, Attingal	8.5033	76.9516
020-EMC-KL	3223-0003	KL	Kerala State Electricity Board	thiruvananthapuram Rural Circle	Thiruvananthapuram	Neyyatinkara, Nedumangad	8.5033	76.9516
019-EMC-KL	3223-0004	KL	Kerala State Electricity Board	Pathanmithitta	Pathanmithitta	Pathanmithitta, Adoor, Thiruvalla	9.24	76.815
018-EMC-KL	3223-0005	KL	Kerala State Electricity Board	Kottayam	Kottayam	Pallom, Changanssery, Vaikkom	9.5866	76.5216
017-EMC-KL	3223-0006	KL	Kerala State Electricity Board	Kottarakkara	Kottarakkara	Kundra, Kottarkara, Punalur	8.9966	76.775
016-EMC-KL	3223-0007	KL	Kerala State Electricity Board	Kollam	Kollam	Chathanoor, Kollam, Karunagapally	8.88	76.5883
012-EMC-KL	3223-0008	KL	Kerala State Electricity Board	Palakkad	Palakkad	Palakkad, Chittur, Alathur	10.766	76.466

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013-EMC-KL	3223-0009	KL	Kerala State Electricity Board	Shornur	Palakkad	Shornur, Mannarkad	10.766	76.3833
014-EMC-KL	3223-0010	KL	Kerala State Electricity Board	Tirur	malappuram	Tirur, Thirurangadi, Ponnani	10.15	76.5166
011-EMC-KL	3223-0011	KL	Kerala State Electricity Board	Manjeri	malappuram	Manjeri, Perinthalmanna, Nilambur	11.1166	76.1166
008-EMC-KL	3223-0012	KL	Kerala State Electricity Board	Kannur, Kalpetta	Kanur, Wayanad	Kannur, Thalassery, Mananthavady, Kalpetta	Kannur-11.8666 Kalpetta- 11.1	Kannur-75.4166 Kalpetta- 76.0166
010-EMC-KL	3223-0013	KL	Kerala State Electricity Board	Kozikhode	Kozikhode	Kozikhode, Feroke, Balussery	11.25	75.8166
015-EMC-KL	3223-0014	KL	Kerala State Electricity Board	Vadakara	Kozikhode	Vadakara, Nadapuram	11.6092	75.5797
009-EMC-KL	3223-0015	KL	Kerala State Electricity Board	Kasargod, Sreekandapuram	Kasargod, Kannur	Kasargod, Kanhangad, payyannur, Iritty	Kasargod - 12.5 Sreekandapuram - 11.8666	Kasargod-75.00 Sreekandapuram- 75.4166
007-EMC-KL	3223-0016	KL	Kerala State Electricity Board	Thrissur	Thrissur	Thrissur(east), Thrissur(west), Kunnankulam, Wadakkanchery	10.5166	76.2016
003-EMC-KL	3223-0017	KL	Kerala State Electricity Board	Ernakulam	Ernakulam	Ernakulam, Mattancherry, Thripunithura	10.015	76.3033
004-EMC-KL	3223-0018	KL	Kerala State Electricity Board	Irinjalakkuda	Thrissur	Irinjalakkuda, Chalakkudy, Kodungalloor	10.333	76.215
005-EMC-KL	3223-0019	KL	Kerala State Electricity Board	Pala & Thodupuzha	Kottayam, Idukki	Pala, Ponnukunnam, Thodupuzha, Kattappana, Peerumade, Adimalay	Pala - 9.71 Thodupuzha - 9.8933	Pala - 76.68 Thodupuzha - 76.68
006-EMC-KL	3223-0020	KL	Kerala State Electricity Board	Perumbavoor	Ernakulam	Moovattupuzha, Aluva, Perumbavoor, North Parur	10.1	76.4733

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002-EMC-KL	3223-0021	KL	Kerala State Electricity Board	Allappuzha	Allappuzha	Allappuzha, Mavelikkara, Chenganoor, Cherthala	9.41	76.41
022-HPL-KR	3223-0022	KR	BESCOM (Bangalore Electricity Supply Company)	Kolar	Kolar	KGF	13.9384	78.2613
023-HPL-KR	3223-0023	KR	BESCOM (Bangalore Electricity Supply Company)	Bangalore Rural	Bangalore Rural	Nelamangala	13.0992	77.3884
024-HPL-KR	3223-0024	KR	BESCOM (Bangalore Electricity Supply Company)	Kolar	Chikkaballapura (CB Pura)	Chikkaballapura (CB Pura)	13.5228	77.8367
025-HPL-KR	3223-0025	KR	BESCOM (Bangalore Electricity Supply Company)	Bangalore Rural	Bangalore Rural	Chandapura	12.8023	77.7048
026-HPL-KR	3223-0026	KR	BESCOM (Bangalore Electricity Supply Company)	Bangalore Rural	Ramanagara	Ramanagara	12.7145	77.2767
027-HPL-KR	3223-0027	KR	BESCOM (Bangalore Electricity Supply Company)	Bangalore Rural	Bangalore Rural	Yelahanka	13.11	77.6
028-HPL-KR	3223-0028	KR	BESCOM (Bangalore Electricity Supply Company)	Kolar	Kolar	Kolar	13.1363	78.1363

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029-CQC-DL	3223-0029	DL	NDPL (North Delhi Power Limited)	North West, North	Shalimar Bagh, Model Town	0	28.7127	77.1623
030-CQC-DL	3223-0030	DL	NDPL (North Delhi Power Limited)	North	KESHAV PURAM, CIVIL LINES AND SHAKTI NAGAR DISTRICTS	0	28.6858	77.1906
031-CQC-DL	3223-0031	DL	NDPL (North Delhi Power Limited)	North, North West	Pitampura, Rohini	0	28.6896	77.1312
032-CQC-DL	3223-0032	DL	NDPL (North Delhi Power Limited)	North, Northwest	Mangol Puri, Moti Nagar	0	28.6602	77.1384
033-CQC-DL	3223-0033	DL	NDPL (North Delhi Power Limited)	North West	Badli and Narela District	0	28.7968	77.0303
034-HPL-GO	3223-0034	GO	Goa Electricity Department	North Goa Block II	North Goa Block II	Division - I (Panaji), Division - V (Bicholim), Division - VI (Mapusa), Division XVII (Mapusa)	15.30° North Agassaim to 15.80° North Torxem (in Pervem Village)	73.69° East Querim beach to 74.27° East Satorrem (In Sattari)
035-HPL-GO	3223-0035	GO	Goa Electricity Department	South Goa - Block I	South Goa - Block I	Division -IV(Margao), Division XVI(Margao), Division VII(Curchorem), Division-X (Ponda), Division XI (Vasco), Division XIV(Verna)	14.95° North Laliem (Canacona) to 15.45° North Tonca (Marcella)	73.80° East Mormagao to 74.23 East Caronzol station° (Dudhsagar water fall)
036-CQC-PB	3223-0036	PB	PSPCL (Punjab State Power Corporation Limited)	Amritsar city, Amritsar Sub Urban	Amritsar	Industrial, City Center, Hakima Gate, Civil Line, East, West	31.634	74.8723
037-CQC-PB	3223-0037	PB	PSPCL (Punjab State Power Corporation)	Kapurthala, Jalandhar	Kapurthala and Jalandhar	Kartapur, Model Town, East, West	31.3071	75.5782

			Limited)					
038-CQC-PB	3223-0038	PB	PSPCL (Punjab State Power Corporation Limited)	Tarn Taran, Amritsar Sub Urban	Tarn Taran , Amritsar	Rayya, City Tarn Taran, Sub Urban, Jindal Guru,Ajnala	31.45	74.9253
039-CQC-PB	3223-0039	PB	PSPCL (Punjab State Power Corporation Limited)	Tarn Taran and Kapurthala	Tarn Taran and Kapurthala	Sub Tarn Taran, Patti, Bhikiwind,City Kapurthala, Sub Urban Kapurthala	31.2817	74.8574
040-CQC-PB	3223-0040	PB	PSPCL (Punjab State Power Corporation Limited)	Kapurthala and Jalandhar	Kapurthala and Jalandhar	City Nakodar and Sub Urban Nakodar Divisions	31.378408,31.340149	75.384235, 75.581131
041-CQC-PB	3223-0041	PB	PSPCL (Punjab State Power Corporation Limited)	Mohali and Ropar	Mohali & Ropar	Mohali, Zirakpur,Lalru, Kharar	30.7488	76.6413
042-CQC-PB	3223-0042	PB	PSPCL (Punjab State Power Corporation Limited)	Ferozpur, Mukhtsar	Ferozpur, Mukhtsar	City Ferozpur, Sub- urban Ferozpur, Jalalabaad and Zira Divisions and Fazilka Division	30o 55' 5.1594"	74o 36'5.1594"
043-CQC-AP	3223-0043	AP	APCPDCL (Central Power Distribution Company of Andhra Pradesh Limited)	Ranga Reddy North	Ranga Reddy	Gachibowli	17.4359	78.3417
044-CQC-AP	3223-0044	AP	APCPDCL (Central Power Distribution Company of	Ranga Reddy North	Ranga Reddy	Kukatpally	17.4833	78.4166

			Andhra Pradesh Limited)					
045-CQC-AP	3223-0045	AP	APCPDCL (Central Power Distribution Company of Andhra Pradesh Limited)	Ranga Reddy North	Ranga Reddy	Medchal	17.6283	78.5746
046-CQC-AP	3223-0046	AP	APCPDCL (Central Power Distribution Company of Andhra Pradesh Limited)	Hyderabad South Circle	Hyderabad District	Asmangadh and Charminar	17 21'41" N	78 28'28" E
047-CQC-AP	3223-0047	AP	APCPDCL (Central Power Distribution Company of Andhra Pradesh Limited)	Central Circle	Hyderabad District	Azamabad and Green Lands Divisions	17 26'3" N	78 27'17" E
048-CQC-AP	3223-0048	AP	APCPDCL (Central Power Distribution Company of Andhra Pradesh Limited)	Hyderabad North	Hyderabad	Bowenpally and Paradise	17.4654	78.478
049-CQC-AP	3223-0049	AP	APCPDCL (Central Power Distribution Company of	South Circle	Hyderabad District	Champapet and Sarooranagar Divisions	17 20'41" N	78 31'6" E

			Andhra Pradesh Limited)					
050-CQC-AP	3223-0050	AP	APCPDCL (Central Power Distribution Company of Andhra Pradesh Limited)	RangaReddy South	Ranga Reddy	Vikarabad and Rajendra nagar	17.3325	77.9047

Annexure 2 – Crediting and Monitoring period of SSC-CPA(s) under BLY PoA (refer MR Section A.5, B.2.5)

CME -Unique Identification No.	UNFCCC Ref. No.	Monitoring Period start date	Monitoring period end date	Monitoring Interval	Monitoring Period Length
		dd/mm/yyyy	dd/mm/yyyy	in days	in years
001-CQC-AP	3223-0001	29/05/2011	31/12/2012	583	1.60
021-EMC-KL	3223-0002	01/05/2011	31/12/2012	611	1.67
020-EMC-KL	3223-0003	09/05/2011	31/12/2012	603	1.65
019-EMC-KL	3223-0004	09/05/2011	31/12/2012	603	1.65
018-EMC-KL	3223-0005	09/05/2011	31/12/2012	603	1.65
017-EMC-KL	3223-0006	09/05/2011	31/12/2012	603	1.65
016-EMC-KL	3223-0007	09/05/2011	31/12/2012	603	1.65
012-EMC-KL	3223-0008	09/05/2011	31/12/2012	603	1.65
013-EMC-KL	3223-0009	09/05/2011	31/12/2012	603	1.65
014-EMC-KL	3223-0010	09/05/2011	31/12/2012	603	1.65
011-EMC-KL	3223-0011	09/05/2011	31/12/2012	603	1.65
008-EMC-KL	3223-0012	09/05/2011	31/12/2012	603	1.65
010-EMC-KL	3223-0013	09/05/2011	31/12/2012	603	1.65
015-EMC-KL	3223-0014	09/05/2011	31/12/2012	603	1.65
009-EMC-KL	3223-0015	09/05/2011	31/12/2012	603	1.65
007-EMC-KL	3223-0016	09/05/2011	31/12/2012	603	1.65
003-EMC-KL	3223-0017	09/05/2011	31/12/2012	603	1.65
004-EMC-KL	3223-0018	09/05/2011	31/12/2012	603	1.65
005-EMC-KL	3223-0019	09/05/2011	31/12/2012	603	1.65
006-EMC-KL	3223-0020	09/05/2011	31/12/2012	603	1.65
002-EMC-KL	3223-0021	09/05/2011	31/12/2012	603	1.65
022-HPL-KR	3223-0022	01/07/2011	31/12/2012	550	1.51
023-HPL-KR	3223-0023	31/08/2011	31/12/2012	489	1.34
024-HPL-KR	3223-0024	31/08/2011	31/12/2012	489	1.34

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025-HPL-KR	3223-0025	31/08/2011	31/12/2012	489	1.34
026-HPL-KR	3223-0026	19/08/2011	31/12/2012	501	1.37
027-HPL-KR	3223-0027	31/08/2011	31/12/2012	489	1.34
028-HPL-KR	3223-0028	01/07/2011	31/12/2012	550	1.51
029-CQC-DL	3223-0029	10/04/2012	31/12/2012	266	0.73
030-CQC-DL*	3223-0030	-	-	-	-
031-CQC-DL	3223-0031	07/07/2012	31/12/2012	178	0.49
032-CQC-DL	3223-0032	06/01/2012	31/12/2012	361	0.99
033-CQC-DL*	3223-0033	-	-	-	-
034-HPL-GO*	3223-0034	-	-	-	-
035-HPL-GO*	3223-0035	-	-	-	-
036-CQC-PB	3223-0036	03/03/2012	31/12/2012	304	0.83
037-CQC-PB	3223-0037	04/05/2012	31/12/2012	242	0.66
038-CQC-PB	3223-0038	27/10/2012	31/12/2012	66	0.18
039-CQC-PB	3223-0039	22/11/2012	31/12/2012	40	0.11
040-CQC-PB*	3223-0040	-	-	-	-
041-CQC-PB	3223-0041	14/08/2012	31/12/2012	140	0.38
042-CQC-PB*	3223-0042	-	-	-	-
043-CQC-AP	3223-0043	25/07/2012	31/12/2012	160	0.44
044-CQC-AP	3223-0044	20/04/2012	31/12/2012	256	0.70
045-CQC-AP	3223-0045	09/10/2012	31/12/2012	84	0.23
046-CQC-AP	3223-0046	-	-	-	-
047-CQC-AP	3223-0047	-	-	-	-
048-CQC-AP	3223-0048	23/12/2012	31/12/2012	9	0.02
049-CQC-AP	3223-0049	-	-	-	-
050-CQC-AP	3223-0050	08/08/2012	31/12/2012	146	0.40

* The cells are left blank as the respective CPAs are not implemented during this monitoring period.

Annexure 3: Chronology of SSC CPA implementation (refer MR section B.1)

CME -Unique Identification No.	UNFCCC Ref No	Start date of CFL distribution	End date of CFL distribution	Date destruction of ICLs	Start Date of Qpj survey	End Date of Qpj survey	Start Date of Monitoring survey	End Date of Monitoring Survey
		dd/mm/yyyy	dd/mm/yyyy	dd/mm/yyyy	dd/mm/yyyy	dd/mm/yyyy	dd/mm/yyyy	dd/mm/yyyy
001-CQC-AP	3223-0001	11/05/2011	09/10/2011	21/10/2011	23/12/2011	06/01/2012	23/12/2011	06/01/2012
021-EMC-KL	3223-0002	16/03/2010	30/07/2010	01/05/2011	01/07/2011	31/07/2011	01/07/2011	31/07/2011
020-EMC-KL	3223-0003	16/03/2010	30/07/2010	09/05/2011	01/07/2011	31/07/2011	01/07/2011	31/07/2011

019-EMC-KL	3223-0004	20/03/2010	15/07/2010	09/05/2011	26/09/2011	26/10/2011	26/09/2011	26/10/2011
018-EMC-KL	3223-0005	16/03/2010	15/07/2010	09/05/2011	10/07/2011	09/08/2011	10/07/2011	09/08/2011
017-EMC-KL	3223-0006	16/03/2010	30/06/2010	09/05/2011	02/01/2012	01/02/2012	02/01/2012	01/02/2012
016-EMC-KL	3223-0007	20/03/2010	30/06/2010	09/05/2011	02/11/2011	02/12/2011	02/11/2011	02/12/2011
012-EMC-KL	3223-0008	26/05/2010	15/09/2010	09/05/2011	09/07/2011	08/08/2011	09/07/2011	08/08/2011
013-EMC-KL	3223-0009	27/05/2010	15/09/2010	09/05/2011	09/07/2011	08/08/2011	09/07/2011	08/08/2011
014-EMC-KL	3223-0010	04/06/2010	15/09/2010	09/05/2011	05/09/2011	05/10/2011	05/09/2011	05/10/2011

011-EMC-KL	3223-0011	07/06/2010	15/09/2010	09/05/2011	16/12/2011	15/01/2012	16/12/2011	15/01/2012
008-EMC-KL	3223-0012	05/06/2010	15/09/2010	09/05/2011	21/11/2011	21/12/2011	21/11/2011	21/12/2011
010-EMC-KL	3223-0013	12/06/2010	15/09/2010	09/05/2011	05/09/2011	05/10/2011	05/09/2011	05/10/2011
015-EMC-KL	3223-0014	16/06/2010	15/09/2010	09/05/2011	05/09/2011	05/10/2011	05/09/2011	05/10/2011
009-EMC-KL	3223-0015	21/06/2010	15/09/2010	09/05/2011	21/11/2011	21/12/2011	21/11/2011	21/12/2011
007-EMC-KL	3223-0016	06/05/2010	31/07/2010	09/05/2011	28/06/2011	28/07/2011	28/06/2011	28/07/2011
003-EMC-KL	3223-0017	28/04/2010	31/07/2010	09/05/2011	18/11/2011	18/12/2011	18/11/2011	18/12/2011

004-EMC-KL	3223-0018	10/05/2010	31/07/2010	09/05/2011	28/10/2011	27/11/2011	28/10/2011	27/11/2011
005-EMC-KL	3223-0019	26/03/2010	31/07/2010	09/05/2011	10/07/2011	09/08/2011	10/07/2011	09/08/2011
006-EMC-KL	3223-0020	05/05/2010	31/07/2010	09/05/2011	18/11/2011	18/12/2011	18/11/2011	18/12/2011
002-EMC-KL	3223-0021	25/03/2010	31/07/2010	09/05/2011	01/09/2011	01/10/2011	01/09/2011	01/10/2011
022-HPL-KR	3223-0022	02/04/2011	01/07/2011	17/02/2012	27/08/2011	08/09/2011	01/02/2012	28/02/2012
023-HPL-KR	3223-0023	04/08/2011	31/08/2011	02/03/2012	29/02/2012	05/03/2012	29/02/2012	05/03/2012
024-HPL-KR	3223-0024	08/07/2011	31/08/2011	27/02/2012	22/02/2012	05/03/2012	22/02/2012	05/03/2012

025-HPL-KR	3223-0025	01/08/2011	31/08/2011	12/03/2012	17/02/2012	27/02/2012	17/02/2012	27/02/2012
026-HPL-KR	3223-0026	20/05/2011	19/08/2011	07/03/2012	17/02/2012	28/02/2012	17/02/2012	28/02/2012
027-HPL-KR	3223-0027	06/07/2011	31/08/2011	16/03/2012	17/02/2012	28/02/2012	17/02/2012	28/02/2012
028-HPL-KR	3223-0028	01/04/2011	01/07/2011	22/02/2012	27/08/2011	05/09/2011	27/08/2011	05/09/2011
029-CQC-DL	3223-0029	16/01/2012	10/04/2012	03/06/2012	07/11/2012	05/12/2012	07/11/2012	05/12/2012
030-CQC-DL*	3223-0030	-	-	-	-	-	-	-
031-CQC-DL	3223-0031	21/05/2012	07/07/2012	13/07/2012	20/11/2012	25/11/2012	20/11/2012	25/11/2012

032-CQC-DL	3223-0032	19/10/2011	06/01/2012	25/01/2012	26/11/2011	30/11/2012	26/11/2012	30/11/2012
033-CQC-DL*	3223-0033	-	-	-	-	-	-	-
034-HPL-GO*	3223-0034	-	-	-	-	-	-	-
035-HPL-GO*	3223-0035	-	-	-	-	-	-	-
036-CQC-PB	3223-0036	05/12/2012	03/03/2012	19/03/2012	12/10/2012	16/10/2012	12/10/2012	16/10/2012
037-CQC-PB	3223-0037	06/03/2012	04/05/2012	23/05/2012	18/10/2012	22/10/2012	18/10/2012	22/10/2012
038-CQC-PB	3223-0038	25/08/2012	27/10/2012	26/11/2012	12/10/2012	23/10/2012	12/10/2012	23/10/2012

039-CQC-PB	3223-0039	08/09/2012	22/11/2012	22/11/2012	25/02/2013	06/03/2013	25/02/2013	06/03/2013
040-CQC-PB*	3223-0040	-	-	-	-	-	-	-
041-CQC-PB	3223-0041	25/06/2012	14/08/2012	21/08/2012	26/10/2012	30/10/2012	26/10/2012	30/10/2012
042-CQC-PB*	3223-0042	-	-	-	-	-	-	-
043-CQC-AP	3223-0043	26/05/2012	25/07/2012	30/07/2012	08/12/2012	13/12/2012	08/12/2012	13/12/2012
044-CQC-AP	3223-0044	26/02/2012	20/04/2012	25/04/2012	21/09/2012	26/09/2012	21/09/2012	26/09/2012
045-CQC-AP	3223-0045	11/08/2012	09/10/2012	16/10/2012	24/12/2012	29/12/2012	24/12/2012	29/12/2012

046-CQC-AP*	3223-0046	-	-	-	-	-	-	-
047-CQC-AP*	3223-0047	-	-	-	-	-	-	-
048-CQC-AP	3223-0048	09/11/2012	23/12/2012	23/12/2012	13/06/2012	19/06/2012	13/06/2012	19/06/2012
049-CQC-AP*	3223-0049	-	-	-	-	-	-	-
050-CQC-AP	3223-0050	04/06/2012	08/08/2012	24/08/2012	16/12/2012	22/12/2012	16/12/2012	22/12/2012

* The cells are left blank as the respective CPAs are not implemented during this monitoring period.

Annexure 4: Q_{pj} Survey Sample size and calculations (refer MR section D.2)

CME CPA Reference No	UNFCCC CPA Ref No	Grid connected HHs participating under the CPA	Average CFLs distributed per household	Qpj Sample size	Start Date of Qpj Survey	End Date of Qpj survey	No. of CFLs of type "i" actually distributed in sample households identified for Qpj survey			BLY logo CFLs of type "i" found installed and operating in the sample households during Qpj survey			Qpj (No. of CFLs of type "i" in operation) fixed for crediting period		
							S ₄₀	S ₆₀	S ₁₀₀	F ₄₀	F ₆₀	F ₁₀₀	Q _p _{i 40}	Q _{pj} 60	Q _{pj} 100
001-CQC-AP	3223-0001	162999	3	1800	23/12/2011	06/01/2012	0	1485	3038	0	1444	2935	0	136635	280875
021-EMC-KL	3223-0002	350751	2	1250	01/07/2011	31/07/2011	0	2500	0	0	2167.2	0	0	0	0
020-EMC-KL	3223-0003	347883	2	1250	01/07/2011	31/07/2011	0	2500	0	0	2199.1	0	0	0	0
019-EMC-KL	3223-0004	250396	2	1250	26/09/2011	26/10/2011	0	2500	0	0	2499.4	0	0	0	0
018-EMC-KL	3223-0005	249960	2	1250	10/07/2011	09/08/2011	0	2500	0	0	1966.3	0	0	0	0
017-EMC-KL	3223-0006	265954	2	1250	02/01/2012	01/02/2012	0	2500	0	0	2296.3	0	0	0	0
016-EMC-KL	3223-0007	299295	2	1250	02/11/2011	02/12/2011	0	2500	0	0	2175.8	0	0	0	0
012-EMC-KL	3223-0008	300418	2	1250	09/07/2011	08/08/2011	0	2500	0	0	2427.8	0	0	0	0
013-EMC-KL	3223-0009	221379	2	1250	09/07/2011	08/08/2011	0	2500	0	0	2338.4	0	0	0	0
014-EMC-KL	3223-0010	276130	2	1250	05/09/2011	05/10/2011	0	2500	0	0	2349	0	0	0	0
011-EMC-KL	3223-0011	354270	2	1250	16/12/2011	15/01/2012	0	2500	0	0	2322.5	0	0	0	0
008-EMC-KL	3223-0012	394160	2	1250	21/11/2011	21/12/2011	0	2500	0	0	2487	0	0	0	0
010-EMC-KL	3223-0013	315608	2	1250	05/09/2011	05/10/2011	0	2500	0	0	2459.9	0	0	0	0
015-EMC-KL	3223-0014	238834	2	1250	05/09/2011	05/10/2011	0	2500	0	0	2430.8	0	0	0	0
009-EMC-KL	3223-0015	406189	2	1250	21/11/2011	21/12/2011	0	2500	0	0	2453.3	0	0	0	0
007-EMC-KL	3223-0016	337767	2	1250	28/06/2011	28/07/2011	0	2500	0	0	2037.4	0	0	0	0
003-EMC-KL	3223-0017	226810	2	1250	18/11/2011	18/12/2011	0	2500	0	0	2075.4	0	0	0	0
004-EMC-KL	3223-0018	290730	2	1250	28/10/2011	27/11/2011	0	2500	0	0	2164.6	0	0	0	0
005-EMC-KL	3223-0019	363328	2	1250	10/07/2011	09/08/2011	0	2500	0	0	2113.5	0	0	0	0
006-EMC-KL	3223-0020	392352	2	1250	18/11/2011	18/12/2011	0	2500	0	0	1985.4	0	0	0	0
002-EMC-KL	3223-0021	424796	2	1250	01/09/2011	01/10/2011	0	2500	0	0	2055.9	0	0	0	0
022-HPL-KR	3223-0022	152130	4	2200	27/08/2011	08/09/2011	0	1060	8097	0	1042	7637	0	71265	478582

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023-HPL-KR	3223-0023	134200	4	2200	29/02/2012	05/03/2012	0	598	8690	0	583	8174	0	32697	455145
024-HPL-KR	3223-0024	134164	4	2200	22/02/2012	05/03/2012	0	970	8374	0	958	7951	0	54305	443892
025-HPL-KR	3223-0025	133012	4	2200	17/02/2012	27/02/2012	0	934	8494	0	914	8084	0	51792	447132
026-HPL-KR	3223-0026	135291	4	2200	17/02/2012	28/02/2012	0	1689	7763	0	1601	7339	0	95335	408781
027-HPL-KR	3223-0027	125057	4	2200	17/02/2012	28/02/2012	0	657	8740	0	640	8229	0	33947	428719
028-HPL-KR	3223-0028	144254	3	2200	27/08/2011	05/09/2011	0	1207	7210	0	1183	6782	0	74585	403061
029-CQC-DL	3223-0029	87221	3	1246	07/11/2012	05/12/2012	0	1361	2102	0	1293	1989	0	62988	182406
030-CQC-DL*	3223-0030														
031-CQC-DL	3223-0031	28791	4	1246	20/11/2012	25/11/2012	0	870	3909	0	840	3760	0	69996	488067
032-CQC-DL	3223-0032	118889	3	1246	26/11/2011	30/11/2012	0	2055	2737	0	1982	2638	0	156168	244774
033-CQC-DL*	3223-0033														
034-HPL-GO*	3223-0034														
035-HPL-GO*	3223-0035														
036-CQC-PB	3223-0036	99961	3	1404	12/10/2012	16/10/2012	0	1138	3552	0	1101	3434	0	79117	231969
037-CQC-PB	3223-0037	84795	3	1404	18/10/2012	22/10/2012	0	922	2992	0	914	2972	0	54900	195661
038-CQC-PB	3223-0038	105254	3	1404	12/10/2012	23/10/2012	0	817	4102	0	783	4022	0	60091	276678
039-CQC-PB	3223-0039	113754	3	1404	25/02/2013	06/03/2013	0	1215	3224	0	1194	3190	0	78980	299926
040-CQC-PB*	3223-0040														
041-CQC-PB	3223-0041	90233	4	1404	26/10/2012	30/10/2012	0	1852	3502	0	1821	3465	0	89528	241970
042-CQC-PB*	3223-0042														
043-CQC-AP	3223-0043	55571	3	1741	08/12/2012	13/12/2012	0	1803	4064	0	1757	3908	0	51506	130191
044-CQC-AP	3223-0044	76883	3	1741	21/09/2012	26/09/2012	0	1250	3526	0	1241	3508	0	64186	152594
045-CQC-AP	3223-0045	101305	3	1741	24/12/2012	29/12/2012	0	1631	3648	0	1599	3572	0	78654	223634
046-CQC-AP*	3223-0046														
047-CQC-AP*	3223-0047														
048-CQC-AP	3223-0048	103499	3	1741	13/06/2012	19/06/2012	0	1325	3924	0	1309	3876	0	79635	239604
049-CQC-AP*	3223-0049														
050-CQC-AP	3223-0050	79505	3	1741	16/12/2012	22/12/2012	0	1460	4692	0	1401	4536	0	54260	203131

* The cells are left blank as the respective CPAs are not implemented during this monitoring period.

Annexure 5: 1st Monitoring Survey and Lamp Failure Rate (LFR) calculations (refer MR section D.2)

CME CPA Ref No	UNF CCC CPA Ref No	Sam ple size	Start Date of Monitoring Survey	End Date of Monitoring Survey	No. of CFLs of type "i" actually distributed in sample households B _i			No. of CFLs with BLY logo of type "i" found installed and operating in the sample households (A _i)			Ex-Post Lamp Failure Rate for CFL of type "i" in year y calculated from survey findings (LFR1 _i)			Ex-ante Lamp Failure Rate for CFL of type "i" in year y calculated from AMSIIJ (LFR2 _i)			Maximum of Ex-ante or Ex-post Lamp Failure Rate for CFL of type "i" in year y (LFR _i)		
					B ₄₀	B ₆₀	B ₁₀₀	A ₄₀	A ₆₀	A ₁₀₀	LFR1 ₄₀	LFR1 ₆₀	LFR1 ₁₀₀	LFR2 ₄₀	LFR2 ₆₀	LFR2 ₁₀₀	LFR ₄₀	LFR ₆₀	LFR ₁₀₀
		N _{M1}	dd/mm/yyyy	dd/mm/yyyy															
001- CQC-AP	3223- 0001	1800	23/12/2011	06/01/2012	0	1485	3038	0	1444	2935	0.00%	2.76 %	3.39 %	0	6.39%	6.39 %	0.0 0%	6.39%	6.3 9%
021- EMC-KL	3223- 0002	1250	01/07/2011	31/07/2011	0	2500	0	0	2167	0	0.00%	13.31 %	0.00 %	0	10.65%	0.00 %	0.0 0%	13.31%	0.0 0%
020- EMC-KL	3223- 0003	1250	01/07/2011	31/07/2011	0	2500	0	0	2199	0	0.00%	12.04 %	0.00 %	0	10.65%	0.00 %	0.0 0%	12.04%	0.0 0%
019- EMC-KL	3223- 0004	1250	26/09/2011	26/10/2011	0	2500	0	0	2499	0	0.00%	0.02 %	0.00 %	0	10.65%	0.00 %	0.0 0%	10.65%	0.0 0%
018- EMC-KL	3223- 0005	1250	10/07/2011	09/08/2011	0	2500	0	0	1966	0	0.00%	21.35 %	0.00 %	0	10.65%	0.00 %	0.0 0%	21.35%	0.0 0%
017- EMC-KL	3223- 0006	1250	02/01/2012	01/02/2012	0	2500	0	0	2296	0	0.00%	8.15 %	0.00 %	0	10.65%	0.00 %	0.0 0%	10.65%	0.0 0%
016- EMC-KL	3223- 0007	1250	02/11/2011	02/12/2011	0	2500	0	0	2176	0	0.00%	12.97 %	0.00 %	0	10.65%	0.00 %	0.0 0%	12.97%	0.0 0%
012- EMC-KL	3223- 0008	1250	09/07/2011	08/08/2011	0	2500	0	0	2428	0	0.00%	2.89 %	0.00 %	0	10.65%	0.00 %	0.0 0%	10.65%	0.0 0%
013- EMC-KL	3223- 0009	1250	09/07/2011	08/08/2011	0	2500	0	0	2338	0	0.00%	6.46 %	0.00 %	0	10.65%	0.00 %	0.0 0%	10.65%	0.0 0%
014- EMC-KL	3223- 0010	1250	05/09/2011	05/10/2011	0	2500	0	0	2349	0	0.00%	6.04 %	0.00 %	0	10.65%	0.00 %	0.0 0%	10.65%	0.0 0%
011- EMC-KL	3223- 0011	1250	16/12/2011	15/01/2012	0	2500	0	0	2323	0	0.00%	7.10 %	0.00 %	0	10.65%	0.00 %	0.0 0%	10.65%	0.0 0%
008- EMC-KL	3223- 0012	1250	21/11/2011	21/12/2011	0	2500	0	0	2487	0	0.00%	0.52 %	0.00 %	0	10.65%	0.00 %	0.0 0%	10.65%	0.0 0%
010- EMC-KL	3223- 0013	1250	05/09/2011	05/10/2011	0	2500	0	0	2460	0	0.00%	1.60 %	0.00 %	0	10.65%	0.00 %	0.0 0%	10.65%	0.0 0%
015- EMC-KL	3223- 0014	1250	05/09/2011	05/10/2011	0	2500	0	0	2431	0	0.00%	2.77 %	0.00 %	0	10.65%	0.00 %	0.0 0%	10.65%	0.0 0%
009- EMC-KL	3223- 0015	1250	21/11/2011	21/12/2011	0	2500	0	0	2453	0	0.00%	1.87 %	0.00 %	0	10.65%	0.00 %	0.0 0%	10.65%	0.0 0%
007- EMC-KL	3223- 0016	1250	28/06/2011	28/07/2011	0	2500	0	0	2037	0	0.00%	18.50 %	0.00 %	0	10.65%	0.00 %	0.0 0%	18.50%	0.0 0%

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003-EMC-KL	3223-0017	1250	18/11/2011	18/12/2011	0	2500	0	0	2075	0	0.00%	16.99%	0.00%	0	10.65%	0.00%	0.00%	16.99%	0.00%
004-EMC-KL	3223-0018	1250	28/10/2011	27/11/2011	0	2500	0	0	2165	0	0.00%	13.41%	0.00%	0	10.65%	0.00%	0.00%	13.41%	0.00%
005-EMC-KL	3223-0019	1250	10/07/2011	09/08/2011	0	2500	0	0	2114	0	0.00%	15.46%	0.00%	0	10.65%	0.00%	0.00%	15.46%	0.00%
006-EMC-KL	3223-0020	1250	18/11/2011	18/12/2011	0	2500	0	0	1985	0	0.00%	20.58%	0.00%	0	10.65%	0.00%	0.00%	20.58%	0.00%
002-EMC-KL	3223-0021	1250	01/09/2011	01/10/2011	0	2500	0	0	2056	0	0.00%	17.76%	0.00%	0	10.65%	0.00%	0.00%	17.76%	0.00%
022-HPL-KR	3223-0022	2200	01/02/2012	28/02/2012	0	1060	809 7	0	1042	7637	0.00%	1.70%	5.68%	0	6.39%	6.39%	0.00%	6.39%	6.39%
023-HPL-KR	3223-0023	2200	29/02/2012	05/03/2012	0	598	869 0	0	583	8174	0.00%	2.51%	5.94%	0	6.39%	6.39%	0.00%	6.39%	6.39%
024-HPL-KR	3223-0024	2200	22/02/2012	05/03/2012	0	970	837 4	0	958	7951	0.00%	1.24%	5.05%	0	6.39%	6.39%	0.00%	6.39%	6.39%
025-HPL-KR	3223-0025	2200	17/02/2012	27/02/2012	0	934	849 4	0	914	8084	0.00%	2.14%	4.83%	0	6.39%	6.39%	0.00%	6.39%	6.39%
026-HPL-KR	3223-0026	2200	17/02/2012	28/02/2012	0	1689	776 3	0	1601	7339	0.00%	5.21%	5.46%	0	6.39%	6.39%	0.00%	6.39%	6.39%
027-HPL-KR	3223-0027	2200	17/02/2012	28/02/2012	0	657	874 0	0	640	8229	0.00%	2.59%	5.85%	0	6.39%	6.39%	0.00%	6.39%	6.39%
028-HPL-KR	3223-0028	2200	27/08/2011	05/09/2011	0	1207	721 0	0	1183	6782	0.00%	1.99%	5.94%	0	6.39%	6.39%	0.00%	6.39%	6.39%
029-CQC-DL	3223-0029	1246	07/11/2012	05/12/2012	0	1361	210 2	0	1293	1989	0.00%	5.00%	5.38%	0	6.39%	6.39%	0.00%	6.39%	6.39%
030-CQC-DL*	3223-0030																		
031-CQC-DL	3223-0031	1246	20/11/2012	25/11/2012	0	870	390 9	0	840	3760	0.00%	3.45%	3.81%	0	6.39%	6.39%	0.00%	6.39%	6.39%
032-CQC-DL	3223-0032	1246	26/11/2012	30/11/2012	0	2055	273 7	0	1982	2638	0.00%	3.55%	3.62%	0	6.39%	6.39%	0.00%	6.39%	6.39%
033-CQC-DL*	3223-0033																		
034-HPL-GO*	3223-0034																		
035-HPL-GO*	3223-0035																		
036-CQC-PB	3223-0036	1404	12/10/2012	16/10/2012	0	1138	355 2	0	1101	3434	0.00%	3.25%	3.32%	0	6.39%	6.39%	0.00%	6.39%	6.39%
037-CQC-PB	3223-0037	1404	18/10/2012	22/10/2012	0	922	299 2	0	914	2972	0.00%	0.87%	0.67%	0	6.39%	6.39%	0.00%	6.39%	6.39%
038-CQC-PB	3223-0038	1404	12/10/2012	23/10/2012	0	817	410 2	0	783	4022	0.00%	4.16%	1.95%	0	6.39%	6.39%	0.00%	6.39%	6.39%

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039-CQC-PB	3223-0039	1404	25/02/2013	06/03/2013	0	1215	322 4	0	1194	3190	0.00%	1.73 %	1.05 %	0	6.39%	6.39 %	0.0 0%	6.39%	6.3 9%
040-CQC-PB*	3223-0040																		
041-CQC-PB	3223-0041	1404	26/10/2012	30/10/2012	0	1852	350 2	0	1821	3465	0.00%	1.67 %	1.06 %	0	6.39%	6.39 %	0.0 0%	6.39%	6.3 9%
042-CQC-PB*	3223-0042																		
043-CQC-AP	3223-0043	1741	08/12/2012	13/12/2012	0	1803	406 4	0	1757	3908	0.00%	2.55 %	3.84 %	0	6.39%	6.39 %	0.0 0%	6.39%	6.3 9%
044-CQC-AP	3223-0044	1741	21/09/2012	26/09/2012	0	1250	352 6	0	1241	3508	0.00%	0.72 %	0.51 %	0	6.39%	6.39 %	0.0 0%	6.39%	6.3 9%
045-CQC-AP	3223-0045	1741	24/12/2012	29/12/2012	0	1631	364 8	0	1599	3572	0.00%	1.96 %	2.08 %	0	6.39%	6.39 %	0.0 0%	6.39%	6.3 9%
046-CQC-AP*	3223-0046																		
047-CQC-AP*	3223-0047																		
048-CQC-AP	3223-0048	1741	13/06/2012	19/06/2012	0	1325	392 4	0	1309	3876	0.00%	1.21 %	1.22 %	0	6.39%	6.39 %	0.0 0%	6.39%	6.3 9%
049-CQC-AP*	3223-0049																		
050-CQC-AP	3223-0050	1741	16/12/2012	22/12/2012	0	1460	469 2	0	1401	4536	0.00%	4.04 %	3.32 %	0	6.39%	6.39 %	0.0 0%	6.39%	6.3 9%

* The cells are left blank as the respective CPAs are not implemented during this monitoring period.

Annexure 6: ICL Destruction data (refer MR section D.2)

CME CPA Ref No	UNFCCC CPA Ref No	No of ICLs collected of each wattage type "i"			No of ICLs destroyed of each wattage type "i"			"Ci" Minimum of Z_i and $N_{destroy}$		
		D ₄₀	D ₆₀	D ₁₀₀	N ₄₀	N ₆₀	N ₁₀₀	C ₄₀	C ₆₀	C ₁₀₀
001-CQC-AP	3223-0001	0	140515	290732	0	140515	290732	0	140515	290732
021-EMC-KL	3223-0002	0	701502	0	0	0	0	0	0	0
020-EMC-KL	3223-0003	0	695766	0	0	0	0	0	0	0
019-EMC-KL	3223-0004	0	500792	0	0	0	0	0	0	0
018-EMC-KL	3223-0005	0	499920	0	0	0	0	0	0	0
017-EMC-KL	3223-0006	0	531908	0	0	0	0	0	0	0
016-EMC-KL	3223-0007	0	598590	0	0	0	0	0	0	0
012-EMC-KL	3223-0008	0	600836	0	0	0	0	0	0	0
013-EMC-KL	3223-0009	0	442758	0	0	0	0	0	0	0
014-EMC-KL	3223-0010	0	552260	0	0	0	0	0	0	0
011-EMC-KL	3223-0011	0	708540	0	0	0	0	0	0	0
008-EMC-KL	3223-0012	0	788320	0	0	0	0	0	0	0
010-EMC-KL	3223-0013	0	631216	0	0	0	0	0	0	0
015-EMC-KL	3223-0014	0	477668	0	0	0	0	0	0	0
009-EMC-KL	3223-0015	0	812378	0	0	0	0	0	0	0
007-EMC-KL	3223-0016	0	675534	0	0	0	0	0	0	0
003-EMC-KL	3223-0017	0	453620	0	0	0	0	0	0	0
004-EMC-KL	3223-0018	0	581460	0	0	0	0	0	0	0
005-EMC-KL	3223-0019	0	726656	0	0	0	0	0	0	0
006-EMC-KL	3223-0020	0	784704	0	0	0	0	0	0	0
002-EMC-KL	3223-0021	0	849592	0	0	0	0	0	0	0
022-HPL-KR	3223-0022	0	72496	507408	0	72496	507408	0	72496	507408
023-HPL-KR	3223-0023	0	33538	483877	0	33538	483877	0	33538	483877
024-HPL-KR	3223-0024	0	54985	467507	0	54985	467507	0	54985	467507
025-HPL-KR	3223-0025	0	52925	469809	0	52925	469809	0	52925	469809

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026-HPL-KR	3223-0026	0	100575	432398	0	100575	432398	0	100575	432398
027-HPL-KR	3223-0027	0	34849	455341	0	34849	455341	0	34849	455341
028-HPL-KR	3223-0028	0	76098	428497	0	76098	428497	0	76098	428497
029-CQC-DL	3223-0029	0	66301	192769	0	66301	192769	0	66301	192769
030-CQC-DL*	3223-0030									
031-CQC-DL	3223-0031	0	22743	89278	0	22743	89278	0	22743	89278
032-CQC-DL	3223-0032	0	161920	253960	0	161920	253960	0	161920	253960
033-CQC-DL*	3223-0033									
034-HPL-GO*	3223-0034									
035-HPL-GO*	3223-0035									
036-CQC-PB	3223-0036	0	81776	239940	0	81776	239940	0	81776	239940
037-CQC-PB	3223-0037	0	55381	196978	0	55381	196978	0	55381	196978
038-CQC-PB	3223-0038	0	62700	282181	0	62700	282181	0	62700	282181
039-CQC-PB	3223-0039	0	80369	303123	0	80369	303123	0	80369	303123
040-CQC-PB*	3223-0040	0								
041-CQC-PB	3223-0041	0	91052	244554	0	91052	244554	0	91052	244554
042-CQC-PB*	3223-0042	0								
043-CQC-AP	3223-0043	0	52854	135388	0	52854	135388	0	52854	135388
044-CQC-AP	3223-0044	0	64651	153377	0	64651	153377	0	64651	153377
045-CQC-AP	3223-0045	0	80228	228392	0	80228	228392	0	80228	228392
046-CQC-AP*	3223-0046									
047-CQC-AP*	3223-0047									
048-CQC-AP	3223-0048	0	80608	242571	0	80608	242571	0	80608	242571
049-CQC-AP*	3223-0049									
050-CQC-AP	3223-0050	0	56545	210117	0	56545	210117	0	56545	210117

* The cells are left blank as the respective CPAs are not implemented during this monitoring period.

Annexure 7: Net Energy Savings Calculations (refer MR section D.2)

CME CPA Ref No	UNFCCC CPA Ref No	Monitoring Period start date	Monitoring period end date	Monitoring Interval	Monitoring Period Length	Transmission & Distribution losses (in %)	Energy Saving by project CFLi (in KWh)			Net Energy Saved by Project CFLi			NESy
		dd/mm/yyyy	dd/mm/yyyy	in days	in years	T&D	ES ₄₀	ES ₆₀	ES ₁₀₀	NES ₄₀	NES ₆₀	NES ₁₀₀	
001- CQC- AP	3223- 0001	29/05/2011	31/12/2012	583	1.60	16%	0	100	163	0	14505	48680	63184
021- EMC- KL	3223- 0002	01/05/2011	31/12/2012	611	1.67	18%	0	98	0	0	0	0	0
020- EMC- KL	3223- 0003	09/05/2011	31/12/2012	603	1.65	18%	0	97	0	0	0	0	0
019- EMC- KL	3223- 0004	09/05/2011	31/12/2012	603	1.65	18%	0	97	0	0	0	0	0
018- EMC- KL	3223- 0005	09/05/2011	31/12/2012	603	1.65	18%	0	97	0	0	0	0	0
017- EMC- KL	3223- 0006	09/05/2011	31/12/2012	603	1.65	18%	0	97	0	0	0	0	0
016- EMC- KL	3223- 0007	09/05/2011	31/12/2012	603	1.65	18%	0	97	0	0	0	0	0
012- EMC- KL	3223- 0008	09/05/2011	31/12/2012	603	1.65	18%	0	97	0	0	0	0	0
013- EMC- KL	3223- 0009	09/05/2011	31/12/2012	603	1.65	18%	0	97	0	0	0	0	0
014- EMC- KL	3223- 0010	09/05/2011	31/12/2012	603	1.65	18%	0	97	0	0	0	0	0
011- EMC- KL	3223- 0011	09/05/2011	31/12/2012	603	1.65	18%	0	97	0	0	0	0	0

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008-EMC-KL	3223-0012	09/05/2011	31/12/2012	603	1.65	18%	0	97	0	0	0	0	0
010-EMC-KL	3223-0013	09/05/2011	31/12/2012	603	1.65	18%	0	97	0	0	0	0	0
015-EMC-KL	3223-0014	09/05/2011	31/12/2012	603	1.65	18%	0	97	0	0	0	0	0
009-EMC-KL	3223-0015	09/05/2011	31/12/2012	603	1.65	18%	0	97	0	0	0	0	0
007-EMC-KL	3223-0016	09/05/2011	31/12/2012	603	1.65	18%	0	97	0	0	0	0	0
003-EMC-KL	3223-0017	09/05/2011	31/12/2012	603	1.65	18%	0	97	0	0	0	0	0
004-EMC-KL	3223-0018	09/05/2011	31/12/2012	603	1.65	18%	0	97	0	0	0	0	0
005-EMC-KL	3223-0019	09/05/2011	31/12/2012	603	1.65	18%	0	97	0	0	0	0	0
006-EMC-KL	3223-0020	09/05/2011	31/12/2012	603	1.65	18%	0	97	0	0	0	0	0
002-EMC-KL	3223-0021	09/05/2011	31/12/2012	603	1.65	18%	0	97	0	0	0	0	0
022-HPL-KR	3223-0022	01/07/2011	31/12/2012	550	1.51	20%	0	94	158	0	7457	83798	91255
023-HPL-KR	3223-0023	31/08/2011	31/12/2012	489	1.34	20%	0	84	140	0	3042	70856	73897
024-HPL-KR	3223-0024	31/08/2011	31/12/2012	489	1.34	20%	0	84	140	0	5052	69104	74156
025-	3223-	31/08/2011	31/12/2012	489	1.34	20%	0	84	140	0	4818	69608	74426

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HPL-KR	0025												
026-HPL-KR	3223-0026	19/08/2011	31/12/2012	501	1.37	20%	0	86	144	0	9086	65200	74286
027-HPL-KR	3223-0027	31/08/2011	31/12/2012	489	1.34	20%	0	84	140	0	3158	66742	69900
028-HPL-KR	3223-0028	01/07/2011	31/12/2012	550	1.51	20%	0	94	158	0	7804	70575	78379
029-CQC-DL	3223-0029	10/04/2012	31/12/2012	266	0.73	16%	0	46	76	0	3055	14806	17861
030-CQC-DL*	3223-0030												
031-CQC-DL	3223-0031	07/07/2012	31/12/2012	178	0.49	16%	0	31	51	0	2272	26510	28782
032-CQC-DL	3223-0032	06/01/2012	31/12/2012	361	0.99	16%	0	58	101	0	9648	26300	35949
033-CQC-DL*	3223-0033												
034-HPL-GO*	3223-0034												
035-HPL-GO*	3223-0035												
036-CQC-PB*	3223-0036	03/03/2012	31/12/2012	304	0.83	18%	0	52	87	0	4495	22057	26552
037-CQC-PB	3223-0037	04/05/2012	31/12/2012	242	0.66	18%	0	42	69	0	2483	14810	17293
038-CQC-	3223-0038	27/10/2012	31/12/2012	66	0.18	18%	0	11	19	0	741	5712	6453

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PB													
039-CQC-PB	3223-0039	22/11/2012	31/12/2012	40	0.11	18%	0	7	11	0	590	3752	4343
040-CQC-PB*	3223-0040												
041-CQC-PB	3223-0041	14/08/2012	31/12/2012	140	0.38	18%	0	24	40	0	2343	10596	12938
042-CQC-PB*	3223-0042												
043-CQC-AP	3223-0043	25/07/2012	31/12/2012	160	0.44	16%	0	27	46	0	1501	6347	7848
044-CQC-AP	3223-0044	20/04/2012	31/12/2012	256	0.70	16%	0	44	73	0	2992	11903	14895
045-CQC-AP	3223-0045	09/10/2012	31/12/2012	84	0.23	16%	0	14	24	0	1203	5724	6927
046-CQC-AP*	3223-0046												
047-CQC-AP*	3223-0047												
048-CQC-AP	3223-0048	23/12/2012	31/12/2012	9	0.02	16%	0	2	3	0	131	657	788
049-CQC-AP*	3223-0049												
050-CQC-AP	3223-0050	08/08/2012	31/12/2012	146	0.40	16%	0	25	42	0	1442	9037	10479

* The cells are left blank as the respective CPAs are not implemented during this monitoring period.

Annexure 8: Comparison Actual Emission reductions and estimated value in included SSC-CPA (refer MR section E)

CME CPA Ref No	UNFCCC CPA Ref No	Actual Emission Reduction	Projected Emission Reduction as per CPA-DD	Remarks on difference between estimated and actual emission reductions
001-CQC-AP	3223-0001	54086	82848	The difference is due to the less number of CFLs distributed as compared to what was assumed
021-EMC-KL	3223-0002	0	86827	0
020-EMC-KL	3223-0003	0	85690	0
019-EMC-KL	3223-0004	0	85690	0
018-EMC-KL	3223-0005	0	85690	0
017-EMC-KL	3223-0006	0	85690	0
016-EMC-KL	3223-0007	0	85690	0
012-EMC-KL	3223-0008	0	85690	0
013-EMC-KL	3223-0009	0	85690	0
014-EMC-KL	3223-0010	0	85690	0
011-EMC-KL	3223-0011	0	85690	0
008-EMC-KL	3223-0012	0	85690	0
010-EMC-KL	3223-0013	0	85690	0
015-EMC-KL	3223-0014	0	85690	0
009-EMC-KL	3223-0015	0	85690	0

007-EMC-KL	3223-0016	0	85690	0
003-EMC-KL	3223-0017	0	85690	0
004-EMC-KL	3223-0018	0	85690	0
005-EMC-KL	3223-0019	0	85690	0
006-EMC-KL	3223-0020	0	85690	0
002-EMC-KL	3223-0021	0	85690	0
022-HPL-KR	3223-0022	77932	78159	The difference is conservative because the survey resulted in a larger discount factor than anticipated due to field conditions
023-HPL-KR	3223-0023	63108	69490	The difference is conservative because the survey resulted in a larger discount factor than anticipated due to field conditions
024-HPL-KR	3223-0024	63329	69490	The difference is conservative because the survey resulted in a larger discount factor than anticipated due to field conditions
025-HPL-KR	3223-0025	63560	69490	The difference is conservative because the survey resulted in a larger discount factor than anticipated due to field conditions
026-HPL-KR	3223-0026	63440	71196	The difference is conservative because the survey resulted in a larger discount factor than anticipated due to field conditions
027-HPL-KR	3223-0027	59694	69490	The difference is conservative because the survey resulted in a larger discount factor than anticipated due to field conditions
028-HPL-KR	3223-0028	66935	78159	The difference is conservative because the survey resulted in a larger discount factor than anticipated due to field conditions
029-CQC-DL	3223-0029	16129	37800	The difference is due to the less number of CFLs distributed as compared to what was assumed
030-CQC-DL*	3223-0030	0	0	0

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031-CQC-DL	3223-0031	25990	25295	The difference is due to the less number of CFLs distributed as compared to what was assumed
032-CQC-DL	3223-0032	32462	51301	The difference is due to the less number of CFLs distributed as compared to what was assumed
033-CQC-DL*	3223-0033	0	0	0
034-HPL-GO	3223-0034	0	0	More number of lamps of higher wattage were distributed than anticipated before CPA validation stage
035-HPL-GO	3223-0035	0	0	More number of lamps of higher wattage were distributed than anticipated before CPA validation stage
036-CQC-PB	3223-0036	23977	43200	The difference is due to the less number of CFLs distributed as compared to what was assumed
037-CQC-PB	3223-0037	15616	34390	The difference is due to the less number of CFLs distributed as compared to what was assumed
038-CQC-PB	3223-0038	5827	9379	The difference is due to the less number of CFLs distributed as compared to what was assumed
039-CQC-PB	3223-0039	3922	5684	The difference is due to the less number of CFLs distributed as compared to what was assumed
040-CQC-PB*	3223-0040	0	0	0
041-CQC-PB	3223-0041	11683	19895	The difference is due to the less number of CFLs distributed as compared to what was assumed
042-CQC-PB*	3223-0042	0	0	0
043-CQC-AP	3223-0043	6788	22737	The difference is due to the less number of CFLs distributed as compared to what was assumed
044-CQC-AP	3223-0044	12884	36379	The difference is due to the less number of CFLs distributed as compared to what was assumed

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045-CQC-AP	3223-0045	5992	11937	The difference is due to the less number of CFLs distributed as compared to what was assumed
046-CQC-AP*	3223-0046	0	0	0
047-CQC-AP*	3223-0047	0	0	0
048-CQC-AP	3223-0048	681	1279	The difference is due to the less number of CFLs distributed as compared to what was assumed
049-CQC-AP*	3223-0049	0	0	0
050-CQC-AP	3223-0050	9065	20748	The difference is due to the less number of CFLs distributed as compared to what was assumed

* The cells are left blank as the respective CPAs are not implemented during this monitoring period.

Annexure 9: Rated power of the baseline ICLs of the group of “I” and Rated power of the CFLs of the group of “I” lighting devices

UNFCCC Ref. No.	Equivalent wattage of CFLs distributed against each type "i" (40W, 60W, 100W) of baseline ICLs						Actual CFL distributed for each wattage type "i" (40W, 60W & 100W)			Weighted Average ICL Wattage (W)	Weighted Average CFL Wattage (W)
	P _{40, BL}	P _{40, PJ}	P _{60, BL}	P _{60, PJ}	P _{100, BL}	P _{100, PJ}	Z ₄₀	Z ₆₀	Z ₁₀₀	P _{ibl}	P _{ipj}
3223-0001	40	0	60	11	100	20	0	140515	290732	87	17
3223-0002	40	0	60	14	100	0	0	701502	0	60	14
3223-0003	40	0	60	14	100	0	0	695766	0	60	14
3223-0004	40	0	60	14	100	0	0	500792	0	60	14
3223-0005	40	0	60	14	100	0	0	499920	0	60	14
3223-0006	40	0	60	14	100	0	0	531908	0	60	14
3223-0007	40	0	60	14	100	0	0	598590	0	60	14
3223-0008	40	0	60	14	100	0	0	600836	0	60	14
3223-0009	40	0	60	14	100	0	0	442758	0	60	14
3223-0010	40	0	60	14	100	0	0	552260	0	60	14
3223-0011	40	0	60	14	100	0	0	708540	0	60	14
3223-0012	40	0	60	14	100	0	0	788320	0	60	14
3223-0013	40	0	60	14	100	0	0	631216	0	60	14
3223-0014	40	0	60	14	100	0	0	477668	0	60	14
3223-0015	40	0	60	14	100	0	0	812378	0	60	14
3223-0016	40	0	60	14	100	0	0	675534	0	60	14
3223-0017	40	0	60	14	100	0	0	453620	0	60	14
3223-0018	40	0	60	14	100	0	0	581460	0	60	14
3223-0019	40	0	60	14	100	0	0	726656	0	60	14
3223-0020	40	0	60	14	100	0	0	784704	0	60	14
3223-0021	40	0	60	14	100	0	0	849592	0	60	14
3223-0022	40	0	60	11	100	18	0	72496	507408	95	17
3223-0023	40	0	60	11	100	18	0	33538	483877	97	18
3223-0024	40	0	60	11	100	18	0	54985	467507	96	17

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3223-0025	40	0	60	11	100	18	0	52925	469809	96	17
3223-0026	40	0	60	11	100	18	0	100575	432398	92	17
3223-0027	40	0	60	11	100	18	0	34849	455341	97	18
3223-0028	40	0	60	11	100	18	0	76098	428497	94	17
3223-0029	40	0	60	11	100	18	0	66301	192769	90	16
3223-0030*											
3223-0031	40	0	60	11	100	18	0	22743	89278	92	17
3223-0032	40	0	60	14	100	20	0	161920	253960	84	18
3223-0033*											
3223-0034*											
3223-0035*											
3223-0036	40	0	60	11	100	18	0	81776	239940	90	16
3223-0037	40	0	60	11	100	18	0	55381	196978	91	16
3223-0038	40	0	60	11	100	18	0	62700	282181	93	17
3223-0039	40	0	60	11	100	18	0	80369	303123	92	17
3223-0040*											
3223-0041	40	0	60	11	100	18	0	91052	244554	89	16
3223-0042	0	0	0	0	0	0	0	0	0	-	0
3223-0043	40	0	60	11	100	18	0	52854	135388	89	16
3223-0044	40	0	60	11	100	18	0	64651	153377	88	16
3223-0045	40	0	60	11	100	18	0	80228	228392	90	16
3223-0046*											
3223-0047*											
3223-0048	40	0	60	11	100	18	0	80608	242571	90	16
3223-0049*											
3223-0050	40	0	60	11	100	18	0	56545	210117	92	17

* The cells are left blank as the respective CPAs are not implemented during this monitoring period.

All the CPA-DDs make use of equations listed under section E.6.2 of PoA-DD, where the emission reduction due to the project activity are calculated as under.

Emissions Reduction (ER_y)

Emission reduction (ER_y) is net electricity savings (NES_y) times an emission factor ($EF_{CO2,ELEC,y}$)

$$ER_y = NES_y \times EF_{CO2,ELEC,y} \quad (1)$$

Where:

ER_y Emission reductions in year y (tCO₂e)

NES_y Net electricity saved in year y (kWh)

$EF_{CO2,ELEC,y}$ Grid Emission factor (GEF) in year y , (tCO₂e/MWh);
The calculated GEF value is fixed ex-ante in the SSC-CPA.

Net Energy Savings (NES_y)

The net energy saved is derived using the equation (2) below:

$$NES_y = \sum_i Q_{PJ,i} * (1 - LFR_{i,y}) * ES_i * [1 / (1 - TD_y)] * NTG \quad (2)$$

Where:

$$ES_i = (P_{i,BL} - P_{i,PJ}) * O_i * 365 / 1000 \quad (3)$$

Where:

NES_y Net electricity saved in year y (kWh)

$Q_{PJ,i}$ Number (quantity) of CFLs of wattage “ i ” distributed or installed under the project activity. In total for all “ i ”, this value shall be equal to or less than the documented number of all baseline ICLs destroyed. Once all of the project CFLs are distributed or installed, $Q_{PJ,i}$ is a constant value independent from y . Under the PoA, $Q_{PJ,i}$ shall be obtained from the *ex post* Q_{PJ} survey, which is to take place within the first 12 months of CFL distribution.

i Counter for lighting device type e.g. 40W incandescent bulb, 14 W CFL

n Number of types of lighting devices

ES_i Estimated annual electricity savings for equipment of type i , for the relevant technology viz. ICL or CFL(kWh)

$LFR_{i,y}$ Lamp Failure Rate for CFL equipment type i in year y (fraction). Under the PoA, this is calculated ex-ante using the equation (4) below and adjusted ex-post based on monitoring survey results.

TD_y Average annual technical grid losses (transmission and distribution) during year y for the grid serving the locations where CFLs are installed, expressed as a fraction. Under the PoA, each CPA would determine the TD_y from the most recent average annual audited data published either by the DISCOM or an official governmental body e.g. by the Central Electricity Authority (CEA) of India, Electricity Regulatory Commission(s).
A default value of 10% shall be used for average annual technical grid losses, if no recent data are available or the data cannot be regarded accurate and reliable.

NTG Under the PoA, the default value of 0.95 is applied.

$P_{i,BL}$ Rated power of the baseline lighting devices (ICLs) of the group of type i lighting devices (Watts)

$P_{i,PJ}$	Rated power of the project lighting devices (CFLs) of the group of “i” lighting devices(Watts)
O_i	Under the PoA, the value of 3.5 hours per 24 hrs period shall be applied in all SSC-CPAs.

Document information

<i>Version</i>	<i>Date</i>	<i>Description</i>
03.1	2 January 2013	Editorial revision to correct table in section E.5.
03.0	3 December 2012	Revision required to introduce a provision on reporting actual emission reductions or net anthropogenic GHG removals by sinks for the period up to 31 December 2012 and the period from 1 January 2013 onwards (EB70, Annex 11).
02.0	13 March 2012	Revision required to ensure consistency with the "Guidelines for completing the monitoring report form" (EB 66, Annex 20).
01	28 May 2010	EB 54, Annex 34. Initial adoption.
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