

<b>Part 1 - Electrical Installation Summary</b>		(* Please delete, if not applicable) Page ___ of ___
Name of Building / Unit / Common Area * _____ _____		
Address of Building / Unit / Common Area * _____ _____		
Date of Declaration by Registered Energy Assessor in Form EE2 / EE3 / EE4 * _____		
<b>Documents submitted</b> (Please tick where applicable)	No. of sheets	
<input type="checkbox"/> Form EE-EL Part 1: Electrical Installation Summary		
<input type="checkbox"/> Form EE-EL Part 2 : Power Distribution Loss Worksheet		
<input type="checkbox"/> Form EE-EL Part 3 : Motor Worksheet		
<input type="checkbox"/> Form EE-EL Part 4 : Power Quality Worksheet		
<input type="checkbox"/> Form EE-EL Part 5 : Metering & Monitoring Facilities Worksheet		
<input type="checkbox"/> Schematic drawings showing the electrical installation governed by the BEC		
<input type="checkbox"/> A drawing list indicating the title and reference number of each drawing		
<input type="checkbox"/> Manufacturer-issued technical documents indicating the rating and efficiency of each motor in Part 3 of this Form		
<input type="checkbox"/> Technical document list summarising the titles of all manufacturer-issued technical documents for electrical motors and corresponding model numbers / descriptions of the motors		
<input type="checkbox"/> Others (Please give details) _____		
<p>Remarks (applicable to Parts 1 to 5) :-</p> <ol style="list-style-type: none"> <li>1) Ref. Nos. of all circuits and equipment, including transformers, switchboards, distribution boards, motor control centres, motors etc. in this Form should be consistent with the Ref. Nos. shown in drawings.</li> <li>2) Schematic drawings should :             <ul style="list-style-type: none"> <li>▫ show power distribution circuits of all the main, sub-main, feeder and final circuits, including -                 <ul style="list-style-type: none"> <li>- distribution transformers, meters of electricity supplier, main incoming circuit breakers, switchboards, distribution boards, and motor control centres,</li> <li>- connection points for power quality correction devices, and if applicable the correction devices, and</li> <li>- metering &amp; monitoring facilities;</li> </ul> </li> <li>▫ indicate all newly installed / retrofitted electrical installation governed by the BEC, including motors or their serving equipment (such as AHU, pump etc.), with reference nos. tallying with Equipment/Motor Reference Nos. in Part 3 of this Form; and</li> <li>▫ indicate the electrical installation not governed by the BEC, if shown on the drawing, with an appropriate symbol, marking or colouring different from the ones governed.</li> </ul> </li> <li>3) All documents including this Form are for demonstration of compliance with the BEC for the electrical installation, and should cover all the relevant items governed by the BEC in respect of the electrical installation.</li> <li>4) Should space provided in this Form be inadequate, please provide details with clear cross-referencing on separate sheets and attach to this Form.</li> <li>5) Descriptions and numbering of each installation, system, equipment, building block, floor, room, space etc. in each of Forms EE-LG, EE-AC, EE-EL, EE-LE &amp; EE-PB, should such appear in more than one type of Form, should be identical.</li> <li>6) <b>Any incomplete or erroneous information in this Form may render this Form being regarded invalid.</b></li> </ol>		

<b>Part 2 - Power Distribution Loss Worksheet</b>	(Please tick where applicable) Page ___ of ___
<b>(A) Distribution Transformer</b> (BEC Clause 7.4.1)	
Any installation of distribution transformer involved ? (Please tick where applicable)	
<input type="checkbox"/> Yes, and distribution transformer(s) is/are provided by the electricity supplier <input type="checkbox"/> Yes, and the efficiency of each of the distribution transformers not provided by the electricity supplier complies with the minimum transformer efficiency requirement specified in BEC Table 7.4 <input type="checkbox"/> No installation of distribution transformer involved	
<b>(B) Main Circuit</b> (BEC Clause 7.4.2)	
Any installation of main circuit(s) (connecting the distribution transformer and the main incoming circuit breaker of the LV switchboard) involved ? (Please choose applicable condition below)	
<input type="checkbox"/> No installation of main circuit involved (If no, please proceed direct to (C)) <input type="checkbox"/> Yes, and the main circuit(s) is/are provided by the electricity supplier <input type="checkbox"/> Yes, and for main circuit(s) not provided by the electricity supplier - <ul style="list-style-type: none"> <li>- the maximum copper loss of the circuit(s) does/do not exceed 0.5% of the total active power transmitted along the circuit conductors at designed circuit current (BEC Clause 7.4.2.1), and</li> <li>- the neutral conductor(s) has/have an effective current-carrying capacity rating not less than that for the phase conductors (BEC Clause 7.4.2.3)</li> </ul> <input type="checkbox"/> Yes, and for main circuit(s) not provided by the electricity supplier - <ul style="list-style-type: none"> <li>- the corresponding transformer room and main switch room are located directly beside, directly above or directly below each other (BEC Clause 7.4.2.2), and</li> <li>- the neutral conductor(s) has/have an effective current-carrying capacity rating not less than that for the phase conductors (BEC Clause 7.4.2.3)</li> </ul>	

<b>Part 2 - Power Distribution Loss Worksheet</b>	(Please tick where applicable) Page ___ of ___
<b>(C) Feeder Circuit</b> (BEC Clause 7.4.3)	
Any installation of feeder circuit involved ? (Please tick where applicable)	
<input type="checkbox"/> Yes, and the maximum copper loss in each of the feeder circuits, single or three-phase, does not exceed 2.5% of the total active power transmitted along the circuit conductors at designed circuit current (BEC Clause 7.4.3)	
<input type="checkbox"/> No installation of feeder circuit involved	
<b>(D) Sub-main Circuit</b> (BEC Clause 7.4.4)	
1) Any installation of sub-main circuit not exceeding 100m length in non-residential building involved ? (Please tick where applicable)	
<input type="checkbox"/> Yes, and the maximum copper loss in each of the sub-main circuits, single or three-phase, does not exceed 1.5% of the total active power transmitted along the circuit conductors at designed circuit current (BEC Clause 7.4.4.1)	
<input type="checkbox"/> No installation of sub-main circuit not exceeding 100m length in non-residential building involved	
2) Any installation of sub-main circuit exceeding 100m length in non-residential building involved ? (Please tick where applicable)	
<input type="checkbox"/> Yes, and –	
<ul style="list-style-type: none"> <li>- the maximum copper loss in each of the sub-main circuits, single or three-phase, does not exceed 2.5% of the total active power transmitted along the circuit conductors at designed circuit current, and</li> <li>- the sum of the copper loss of the sub-main circuit and the copper loss of any of its final circuit over 32A (based on circuit protective device rating) does not exceed 2.5% (BEC Clause 7.4.4.2)</li> </ul>	
<input type="checkbox"/> No installation of sub-main circuit exceeding 100m length in non-residential building involved	
3) Any installation of sub-main circuit in residential building involved ? (Please tick where applicable)	
<input type="checkbox"/> Yes, and the maximum copper loss in each of the sub-main circuits, single or three-phase, does not exceed 2.5% of the total active power transmitted along the circuit conductors at designed circuit current (BEC Clause 7.4.4.3)	
<input type="checkbox"/> No installation of sub-main circuit in residential building involved	
<b>(E) Final Circuit</b> (BEC Clause 7.4.5)	
Any installation of final circuit over 32A (based on circuit protective device rating) involved ? (Please tick where applicable)	
<input type="checkbox"/> Yes, the maximum copper loss in each of the final circuits, single or three-phase, does not exceed 1% of the total active power transmitted along the circuit conductors at designed circuit current (BEC Clause 7.4.5)	
<input type="checkbox"/> No installation of final circuit over 32A (based on circuit protective device rating) involved	

(Please refer to Section 7, Code of Practice for Energy Efficiency of Building Services Installation 2012 Edition)

**Part 3 - Motor Worksheet** (Please tick where applicable) Page \_\_\_\_ of \_\_\_\_

Any installation of three-phase single-speed totally enclosed induction motor involved (BEC Clause 7.5.1) ?

Yes (if yes, please provide information in table below)

No installation of three-phase single-speed totally enclosed induction motor involved (If no, please proceed direct to Part 4)

Equipment / Motor Reference No.	Installed motor			Comparison with min allowed rated motor efficiency (%) at full load in BEC Table 7.5.1 (please tick the applicable condition below*)	Percentage of output power of installed motor to anticipated system load (BEC Clause 7.5.2) (please tick the applicable condition below*)			
	Rated output power (kW)	2 or 4 poles	Rated efficiency (%) at full load		<input type="checkbox"/> (d)	<input type="checkbox"/> (e)	<input type="checkbox"/> (f)	<input type="checkbox"/> (g)
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(Please refer to Section 7, Code of Practice for Energy Efficiency of Building Services Installation 2012 Edition)

**Part 4 - Power Quality Worksheet**

(Please tick where applicable) Page \_\_\_\_ of \_\_\_\_

Any installation of three-phase circuit connecting to the meter of the electricity supplier, or any installation of circuit at or above 400A (based on circuit protective device rating), single or three-phase involved ?

(Please tick where applicable)

- Yes (If yes, please provide information in (A) to (C) below)
- No installation of three-phase circuit connecting to the meter of the electricity supplier, or of circuit at or above 400A involved (If no, please proceed direct to Part 5)

**(A) Total Power factor (TPF)** (BEC Clause 7.6.1)

(Please tick where applicable)

- For each of the circuits above either a power factor correction device is installed such that the total power factor in each circuit is not less than 0.85 at designed circuit current, or a connection point constituting a spare way (reserved solely for supplying power to the correction device) is provided (BEC Clause 7.6.1.3)

**(B) Total Harmonic Distortion (THD)** (BEC Clause 7.6.2)

(Please tick where applicable)

- For each of the above circuits either a harmonic current correction device is installed such that the total harmonic distortion of current in each circuit complies with BEC Table 7.6.2 at designed circuit current, or a connection point constituting a spare way (reserved solely for supplying power to the correction device) is provided (BEC Clause 7.6.2.3)

**(C) Balancing of Single-phase Loads** (BEC Clause 7.6.3)

Any installation of three-phase four-wire circuit at or above 400A (based on circuit protective device rating) with single-phase loads involved ?

(Please tick where applicable)

- Yes, and the maximum current unbalance of each circuit at designed circuit current does not exceed 10% (BEC Clause 7.6.3)
- No installation of three-phase four-wire circuit at or above 400A with single-phase loads involved

**Part 5 - Metering and Monitoring Worksheet** (Please tick where applicable) Page \_\_\_\_ of \_\_\_\_

**(A) Main Circuit** (BEC Clause 7.7.1)

Any installation of main incoming circuit at or above 400A (based on circuit protective device rating) involved ?  
(Please tick where applicable)

- Yes, and metering devices are provided for each circuit, for measuring voltages (phase-to-phase and phase-to-neutral), currents (three-phase and neutral), total power factor, total energy consumption (kWh), maximum demand (kVA) and total harmonic distortion (BEC Clause 7.7.1)
- No installation of main incoming circuit at or above 400A involved

**(B) Feeder and Sub-main Circuit exceeding 200A but below 400A** (BEC Clause 7.7.2.1)

Any installation of feeder circuit and/or sub-main circuit, exceeding 200A but below 400A (based on circuit protective device rating), involved ?  
(Please tick where applicable)

- Yes, and metering devices are provided for each circuit, for measuring currents (three-phase and neutral) and total energy consumption (kWh) (BEC Clause 7.7.2.1)
- No installation of feeder and/or sub-main exceeding 200A but below 400A involved

**(C) Feeder and Sub-main Circuit at or above 400A** (BEC Clause 7.7.2.2)

Any installation of feeder circuit and/or sub-main circuit, at or above 400A (based on circuit protective device rating), involved ?  
(Please tick where applicable)

- Yes, and metering devices are provided for each circuit, for measuring voltages (phase-to-phase and phase-to-neutral), currents (three-phase and neutral), total power factor, total energy consumption (kWh), maximum demand (kVA) and total harmonic distortion (BEC Clause 7.7.2.2)
- No installation of feeder and/or sub-main at or above 400A involved