



सत्यमेव जयते  
Government of Gujarat

# Certification of Electrical Installation by Chief Electrical Inspector

Process Flow, Checklist and Timelines

Energy & Petrochemicals Department

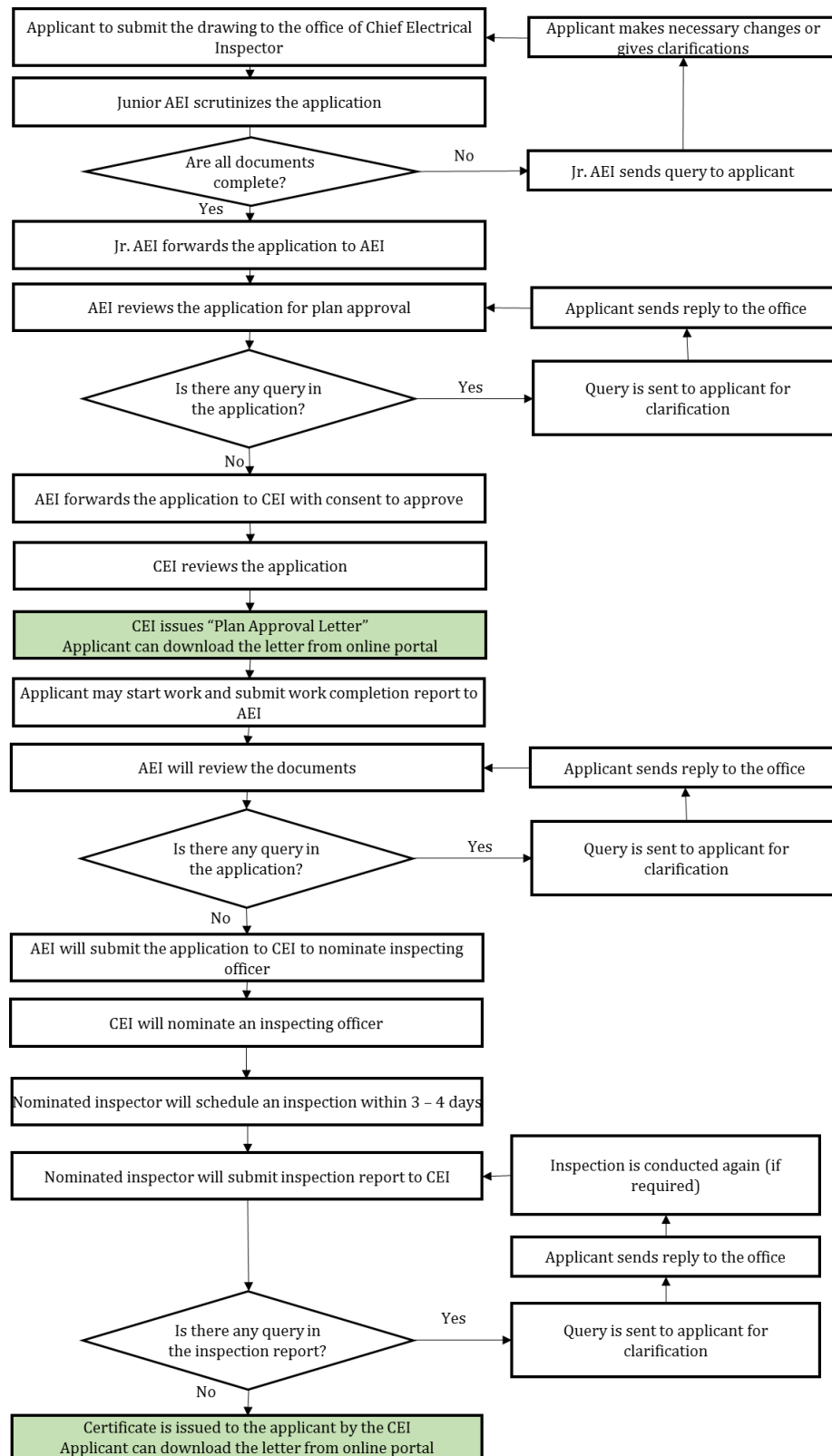
Ease of Doing Business

## Application Name:

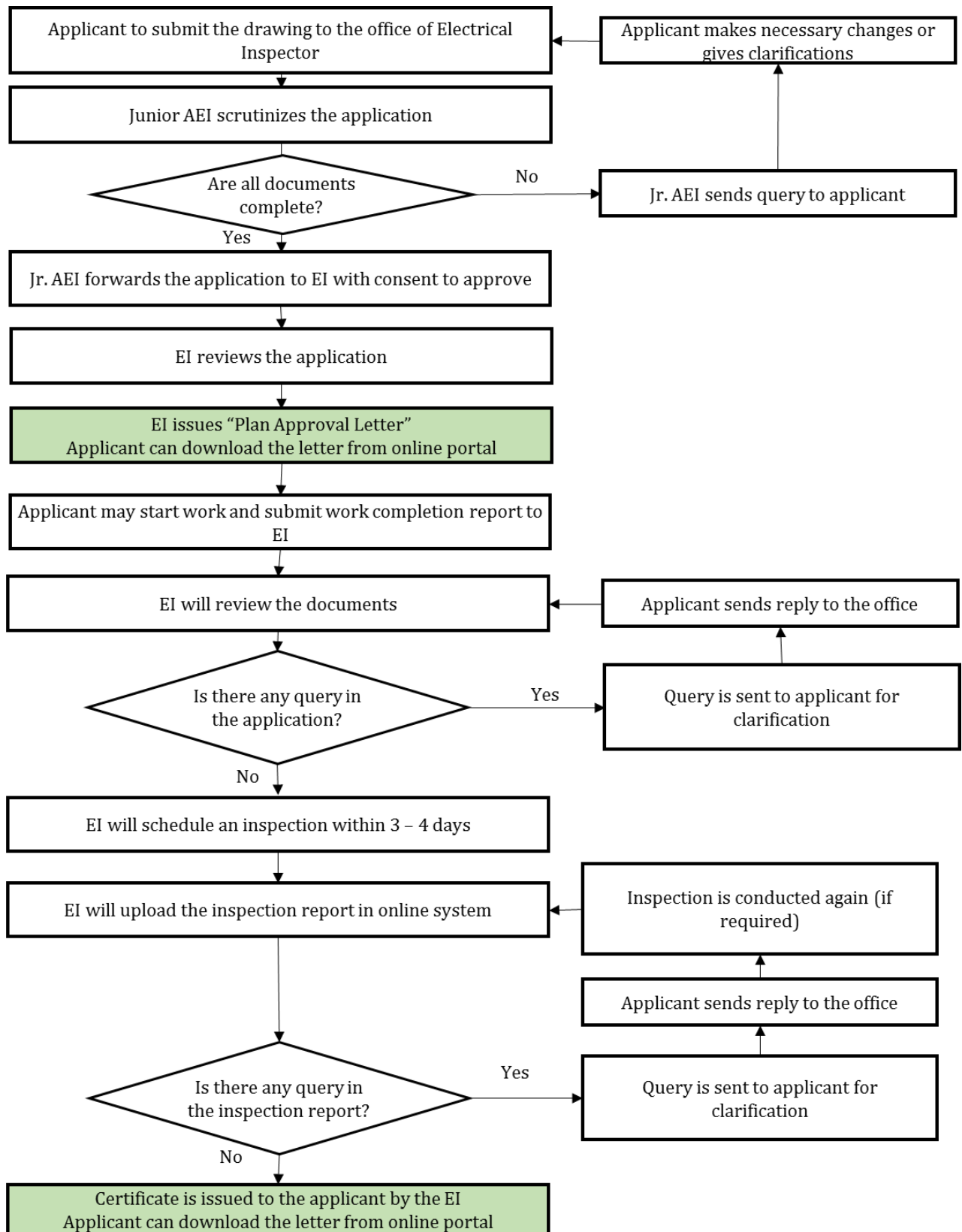
### Certification of Electrical Installation by Chief Electrical Inspector

<b>Applications sent to Chief Electrical Inspector Office</b>	<b>Applications Sent to Electrical Inspector Office</b>
All applications with Load > 33 KV	All applications with Load </= 33 KV
Application for Solar Power plan if generation is above 100 KW	Application for Solar Power plan if generation is </= 100 KW
Captive Power Plant (CPP) <ul style="list-style-type: none"><li>• If plant is for construction purpose above 500 KVA</li><li>• All CPP for other purposes</li></ul>	Captive Power Plant (CPP) <ul style="list-style-type: none"><li>• If plant is for construction purpose &lt;/= 500 KVA</li></ul>
Transformers	Transformers
EHV Overhead Line	
HT Motors	
Reactors	
Wind Power Plant	

## Process Flow – Chief Electrical Inspector Office



## Process Flow –Electrical Inspector Office



## Checklist

### For the Approval of the HV/EHV electrical installations

S. No.	Name of Document
1.	Overall Single Line Diagram – showing existing and proposed installations
2.	Equipment Layout drawing with plot plan
3.	Earthing layout drawing with Standard Earth Pit
4.	Earthing Resistance Calculations with reference to Step and Touch Potential (In case of EHV)
5.	Fault level Calculations. (In case of EHV)
6.	Key Plan
7.	Details of the previous Approval & Permission of the Inspectorate for Existing Installation (Optional)

### Approval of the EHV Overhead Line or Under Ground Cable:

S. No.	Name of Document
1.	Overall Single Line Diagram
2.	Route map with details of line crossing with existing line/Road/Railway
3.	Earthing layout drawing with Standard Earth Pit Drawing
4.	Tower/Pole structure drawing
5.	Permission of the Local Authority/ Owner for laying line or cable
6.	In case of U/G cable, Detail of the Cable Duct and Cross section of the Cable
7.	Details of the previous Approval & Permission of the Inspectorate for Existing Installation (Optional)

### Approval of the Captive Generating Plant (CGP) or DG Installations:

S. No.	Name of Document
1.	Overall Single Line Diagram– showing existing and proposed installations
2.	Equipment Layout drawing with plot plan
3.	Earthing layout drawing with Standard Earth Pit Drawing
4.	Details of CGP/DG in prescribed format with declaration
5.	Purchase invoice, Load List, Copy of the Electricity Bill. Or in case of estimate from DISCOM

6. In case of U/G cable, Detail of the Cable Duct and Cross section of the Cable
7. Approval of local authority (Optional)
8. Key Plan
9. Details of the previous Approval & Permission of the Inspectorate for Existing Installation (Optional)

**Approval of the Non-Conventional Energy Source based electrical installation (Solar, WTG etc):**

S. No.	Name of Document
1.	Overall Single line diagram– showing existing and proposed installations
2.	Equipment layout drawing
3.	Earthing layout drawing with standard earth pit.
4.	Calculation of the PV cell required for desired capacity & inverter details (in case of solar)
5.	Copy of the sanction letter of GEDA (in case of Solar).
6.	Key Plan
7.	Details of the previous Approval & Permission of the Inspectorate for Existing Installation (Optional)

**Approval of Reactor:**

S. No.	Name of Document
1.	Overall Single line diagram
2.	Equipment layout drawing with plot plan
3.	Earthing layout drawing with standard earth pit.
4.	Key Plan
5.	Details of the previous Approval & Permission of the Inspectorate for Existing Installation (Optional)

**For the Approval of HT Motor:**

S. No.	Name of Document
1.	Overall Single line diagram
2.	Equipment layout drawing with plot plan
3.	Earthing layout drawing with standard earth pit.
4.	Details of the previous Approval & Permission of the Inspectorate for Existing Installation (Optional)
5.	Key Plan

## For the Approval of Capacitor Bank:

S. No.	Name of Document
1.	Overall Single line diagram
2.	Equipment layout drawing with plot plan
3.	Earthing layout drawing with standard earth pit.
4.	Details of the previous Approval & Permission of the Inspectorate for Existing Installation (Optional)
5.	Key Plan

### Fees Details

No Fees

### Timeline

30 Days (Notified as a part of RCPS Act)

Thank You