

DRAFT
GOVERNMENT OF PUNJAB
DEPARTMENT OF NEW & RENEWABLE ENERGY SOURCES
NOTIFICATION

Dated

No. In exercise of the powers conferred under clause (a) of Section 15 and Section 18 of The Energy Conservation Act-2001 (Act. No. 52 of 2001), the Governor of Punjab is pleased to issue the following directions for the mandatory use of “Punjab Energy Conservation Building Code Rules 2020” for the energy efficiency and its conservation in the buildings or building complexes in the state of Punjab. This notification shall supersede the previous notification vide no. 18/4/16-6; 1/1856 dated 24.06.2016, unless specifically stated otherwise hereunder.

1. Short title and commencement. –

- (1) These rules may be called the Punjab Energy Conservation Building Code Rules, 2020.
- (2) They shall come into force on the date of their publication in the Official Gazette.

2. Definitions. –

- (1) In these rules, unless the context otherwise requires, -
 - (a) “Act” means The Energy Conservation Act, 2001 (52 of 2001); and its amendments from time to time
 - (b) “Best practices” means those measures that—

Allow for optimisation of efficiencies in the identified components and systems to enhance the energy efficiency of the building; or

 - (i) Reduce the cost of construction having regard to the safety, stability of the building structure, health and environmental provisions of State laws; and
 - (ii) Includes energy conservation measures approved by the Punjab Energy Conservation Building Code Implementation Committee or Punjab Energy Conservation Building Code Compliant Technical Grievances Redressal Committee;
 - (c) “building complex” means a building or group of buildings constructed in a contiguous area for business, commercial, institutional purposes or assembly of buildings under the single ownership of individuals or group of individuals or under the name of a co-operative group society or on lease and sold as shops or office space or space for other commercial purposes;
 - (d) “built up area” means the sum of the covered areas of all floors of a building, other than the roof, and areas covered by external walls and parapet on these floors.

- (e) “bureau” means the Bureau of Energy Efficiency.
- (f) “bye-laws” means the building bye-laws framed by Department of Housing and Urban Development and Department of Local Government to regulate the building activities in its areas falling in the jurisdiction of-
 - (i) All Municipal authorities or Committees or Councils or Nagar Panchayats;
 - (ii) All areas covered under the Development or Planning authorities;

Under various development plans notified by Punjab Government and enforced in its jurisdiction in which the Energy Conservation Building Code compliant building shall be located and includes any regulation or rule framed by Punjab Government or any other authority having jurisdiction established by the Punjab Government;

- (g) “Certified Energy Auditor (Building)” means a person who fulfils the eligibility criteria specified in the Energy Conservation (Minimum qualification for Energy Auditors and Energy Managers) Rules, 2006 and has qualified National Examination for Energy Conservation Building Codes Compliance. (BEE Empanelled ECBC Expert / Design professional or PEDDA empanelled ECBC Design Professionals shall be eligible in place of Certified Energy Auditor (Building) till the cadre of Certified Energy Auditor (Building) shall be created by BEE);
- (h) “Code” means the latest version of Energy Conservation Building Code 2017 (**Appendix-I**) and its amendments (**Appendix-II**) framed by the State Govt. / Bureau of Energy Efficiency from time to time under the EC Act;
- (i) “compliance documents” mean the forms specified in Appendix D of the Code and include certificates from the Certified Energy Auditor (Building) to confirm compliance with these rules.
- (j) “connected load” means the total of the rated wattage of all equipment, appliances and devices to be installed or installed in the building or part of the building or building complexes in terms of kilowatt (kW) that will be allocated to all applicants for electric power consumption in respect of the proposed building or building complex, as the case may be, on their completion;
- (k) “construction documents” mean drawings or documents containing information pertaining to building construction processes and approvals, building materials and equipment specification, architectural details required by the authority having jurisdiction;

- (l) “contract demand” means the maximum demand in kilowatt (kW) or Kilo-Volt Ampere (kVA) (within a consumer’s sanctioned load) agreed to be supplied by the electricity provider or utility in the agreement executed between the user and the utility or electricity provider;
- (m) “Empanelled Energy Auditors (Buildings)” means a firm consisting of the Certified Energy Auditors certified under Bureau of Energy Efficiency (Certification Procedures for Energy Auditors & Energy Managers) Regulations, 2010 and Certified Energy Auditors (Buildings) and empanelled with the Bureau;
- (n) “energy conservation measures” mean the measures incorporated in the building design for saving energy, or enhancing comfort in peak electrical or thermal demand, or reducing cooling or heating load covering any element of a component with any other element of the same or other component of the Code and includes any such measure incorporated in the said building design of the proposed or existing building;
- (o) “energy performance index” (EPI) means annual energy consumption of a building in kilowatt-hours per square meter of the area of the building which shall be calculated as per the following formula:

$$\text{Energy Performance Index (EPI)} = \frac{\text{Annual Energy Consumption in kWh}}{\text{Total built up area excluding storage area \& parking in the basement in m}^2}$$

- (p) “energy performance index ratio” means the ratio of the energy performance index of the proposed building to the energy performance index of the standard baseline building;
- (q) “form” means the forms appended to these rules;
- (r) “owner” means a person, group of persons, a company, a trust, an institute, registered body, State Government or Central Government and its attached or sub-ordinate departments, undertakings and such other agencies or organizations in whose name the property stands registered in the revenue records for the construction of a building or building complex;
- (s) “proposed design” means the computerised design of a building consistent with the actual design of a building which complies with all the requirements of the Code either through prescriptive or whole building performance method;
- (t) “standard baseline design” means the standard design that complies with all the mandatory and prescriptive requirements of the Code and has the same built-up area of the proposed building;

- (u) “establishment” means a business or other organization, or the place where an organization operates and includes a Government establishment and private establishment;
- (v) “PEDA” means the Punjab Energy Development Agency;
- (w) “PSPCL” means Punjab State Power Corporation Limited.

(2) Words and expressions used herein are not defined, but defined in the Act, or in the Code, shall have the meanings respectively assigned to them in the Act or in the said Code.

3. Application. - These rules and the provisions of Energy Conservation Building Code shall be applicable to every building, intended to be used for commercial purposes having a connected load of 100 kiloWatt (kW) or above or a contract demand of 120 kilo-Volt Ampere (kVA) or above or a total built-up area of 1000 m² or above.

(1) Building Classification- Any one or more buildings or part of a building with commercial use is classified as per the functional requirements of its design, construction and use. The key classification is as below:

- (a) Hospitality
- (b) Health Care
- (c) Assembly
- (d) Business
- (e) Educational
- (f) Shopping Complex
- (g) Mixed-use Building
- (h) And any other categorisation, as may be specified from time to time by the Bureau / State.

(2) The following are the components of building considered for compliance with the Code

- (a) Building Envelope;
- (b) Comfort systems and controls (heating, ventilation and air conditioning & service hot water system);
- (c) Lighting and controls;
- (d) Electrical and Renewable energy systems;
- (e) Any other system, as may be specified from time to time by the Bureau / State;
 - (i) Provided that these rules shall not apply to equipment, appliances, devices and parts of building that use energy primarily for manufacturing processes:
 - (ii) Provided further that wherever these rules are in conflict with safety, security, health or environmental codes, or Bureau of Energy Efficiency’s Standard and Labelling for equipment

or appliances and Star Rating Program for buildings and if they are more stringent than the requirement of these rules then they shall prevail over these rules:

- (iii) Provided also that if any existing building after additions or alterations changes its connected load to 100 kilowatt (kW) or above or a contract demand of 120 Kilo-Volt Ampere (kVA) or above, or if the total built up area becomes 1000 m² or above, the additional or the altered area shall comply with the provisions of section 4 to section 7 in the Code for the components listed in sub rule (2) of rule 3.

4. Compliance Mechanism.

- (1) The compliance of energy performance of a building shall be ensured by the owner by following either of the following methods, namely:-
 - (a) Prescriptive Method. – The building shall comply with the mandatory requirements and prescriptive requirements as specified in the Code for envelope components, thermal comfort systems and controls, lighting and controls, electrical and renewable energy systems;
 - (b) Whole Building Performance Method. – The building shall comply with all mandatory measures and the requirements specified in the whole building performance method of the Code and the energy performance index of the proposed design under this method shall be the same or less than the energy performance index of the standard baseline design of building as follows:

$$\text{energy performance index ratio} = \frac{\text{energy performance index of proposed design}}{\text{energy performance index of standard baseline design}} \leq 1$$

- (2) The summary covering building envelope, comfort systems & controls, lighting & controls, and electrical & renewable energy systems and their checklists under Prescriptive Method and Whole Building Performance Method shall be as specified in the Appendix D of the Code.

5. Procedure for erection of Code compliant building.

- (1) Every owner who intends to erect or re-erect a building or make alterations or additions in any building under these rules shall submit to the concerned authority having jurisdiction, an application in Form I (a) along with application of change of land use. The concerned architects / architect firm / Project management consultancies involved in the development & execution of the construction works of the proposed building

shall also submit an undertaking in Form I (b) along with application of change of land use

- (2) Every owner who intends to erect or re-erect a building or make alterations or additions in any building under these rules shall submit to the concerned authority having jurisdiction, an application in Form II accompanied by: -
 - (a) construction documents duly signed by the owner together with an undertaking in Form III;
 - (b) construction document shall ensure-
 - (i) compliance with the applicable building bye-laws in force;
 - (ii) building design incorporates energy conservation measures and best national and international practices having regard to the climatic conditions of the site and specific needs of the building so as to optimise the energy performance index ratio of the building;
 - (iii) that all the data, building features, identified energy conservation measures under various building components and systems are shown in detail and in the manner specified in applicable bye-laws;
 - (iv) the drawing of plan, colour of plan, dimensions of plan, scale of plan as per requirements of the applicable bye-laws in force;
 - (c) compliance documents covering the construction of components and systems of the Code, duly certified by the Certified Energy Auditor (Building) including the following, namely: -
 - (i) energy performance index ratio report in respect of the proposed building at the design stage;
 - (ii) certificate in Form IV by the Certified Energy Auditor (Building) certifying the compliance documents as specified in Appendix D of the Code;
 - (iii) have been scrutinized or verified in respect of the identified energy conservation measures; and
 - (iv) an application with heading super scribed "application for permission to erect/re-erect an Energy Conservation Building Code Complaint Building", duly signed by the owner seeking building permit from the concerned authority having jurisdiction before starting construction work in respect of the proposed building.
- (3) The authority having jurisdiction may require submission of documents in electronic form or hard copy of the documents, referred to in sub-rule (1) & (2) of rule 5.

- (4) The Certified Energy Auditor (Building), at the design stage, shall follow the following procedure of inspection, namely:-
- (a) scrutinize the construction documents with respect to -
 - (i) floor area;
 - (ii) window area;
 - (iii) wall area;
 - (iv) roof area of the building;
 - (v) built-up area of the proposed design of the building;
 - (b) scrutinize the Code compliance documents and the check list as specified in the Appendix D of the Code and identify -
 - (i) the energy conservation measures that are applicable to the proposed design of building;
 - (ii) insulation quantities in walls and roof, and the construction assemblies, solar heat gain coefficient, visible light transmittance and thermal transmittance (U-factor) for window assemblies;
 - (iii) heating, ventilation and air-conditioning component tables for air-handling equipment, refrigeration equipment, condensing equipment and air-flow summaries;
 - (iv) heating, ventilation and air-conditioning equipment efficiencies and control equipment;
 - (v) tables showing lighting equipment schedules;
 - (vi) lighting power density calculations in the design documents;
 - (vii) lighting controls;
 - (viii) motor efficiencies and controls;
 - (ix) findings of the document review to match with the energy model inputs for the proposed building by using the simulation tool approved by the Bureau;
 - (c) scrutinize energy performance index ratio projected at the design stage;
 - (d) verify and certify under its seal and authorized signature the items from (i) to (ix) of (b) and (c) of sub rule 4 of rule 5;
 - (e) fill the check list as specified in the Appendix D of the Code and issue correction list in case the design documents of the proposed design of building provide inadequate information or do not meet the requirements of these rules and shall-
 - (i) communicate his findings in Form V to the owner of the building under intimation to authority having jurisdiction;
 - (ii) give specified time to the owner to implement its findings;

- (iii) satisfy himself that the communication received from the owner within the specified time, meet the findings and fulfil the shortcomings;
 - (f) record his approval and complete the checklist conforming compliance with the Code and these rules, and issue the certificate of approval in Form VI to the owner under intimation to the concerned Authority having jurisdiction.
- (5) The authority having jurisdiction on receipt of application under sub-rule (2) of rule 5 for issue of permit for construction of proposed building shall-
 - (a) approve the design and sanction building plan only after it has received a certificate in Form IV or Form VI from the Certified Energy Auditor (Buildings) and an undertaking from owner in Form III;
 - (b) grant permit to erect or re-erect the building or add to or make alterations in the building to carry out the construction works subject to the following conditions in its sanction letter, namely: -
 - (i) the construction work shall be in accordance with the sanctioned plan and requirement under the Code and these rules;
 - (ii) the compliance with these rules shall be achieved during construction-in-progress;
 - (iii) the building shall not be occupied before issuance of occupancy certificate to the owner;
 - (iv) the authority having jurisdiction may, at any stage, revoke the permit on receipt of non-compliance report from Certified Energy Auditor (Buildings) or on the notice of any misrepresentation of material facts in the application in respect of the provisions of these rules or the Code after giving a reasonable opportunity of being heard to the owner.
- (6) After receiving the permit, the owner shall-
 - (a) give notice of his intention to start the construction work of the building in Form VII;
 - (b) undertake construction of energy conservation measures incorporated in the construction documents in terms of sub-clause (ii) of clause (b) of sub-rule (2) of rule 5;
 - (c) have flexibility in constructing the building components and systems covered in the construction documents referred to in sub-rule (2) of rule 5; to the most effective use of energy by deploying best practices in such components and systems to optimize the energy performance index ratio;

- (d) take the approval of the Certified Energy Auditor (Building) before undertaking such construction referred to in clause (c) sub-rule (6) of rule 5 if the components and systems proposed to be constructed are other than those incorporated in the construction and compliance document.
- (7) The Certified Energy Auditor (Building), at construction stage, shall review, verify the specifications of the parameters specified in sub-rule (4) of rule 5 and, -
- (a) fill out the checklist specified in the Appendix D of the Code, provide comments if the proposed design of building does not meet the construction requirements and specify the shortcomings in compliance to the Code, these rules and sanctioned plan, and shall-
 - (i) communicate its shortcomings and finding to the owner;
 - (ii) give specified time to the owner to implement its findings;
 - (iii) satisfy himself that the communication received thereafter from the owner meets the specified findings and fulfil shortcomings;
 - (b) record his approval and complete the checklist indicating compliance with the Code and these rules, and issue a certificate of compliance in Form VIII to the owner under intimation to authority having jurisdiction;
 - (c) where it is determined at any stage that construction is not proceeding in accordance with the sanctioned plan or is in violation of any of the provisions of the Code and these rules, Certified Energy Auditor (Buildings) shall notify the owner, and request for additional information with respect to his findings or on the short comings identified by him as per Form IX;
 - (d) in case the Certified Energy Auditor (Buildings) is satisfied with the additional information provided by the owner, he shall record the same in the certificate of compliance in Form VIII and communicate the same to the owner under intimation to the authority having jurisdiction;
 - (e) in case the Certified Energy Auditor (Buildings) is not satisfied with the additional information submitted by the owner he shall report the same to authority having jurisdiction to ensure that all further construction is stayed until correction has been effectuated and a certificate of compliance has been issued by Certified Energy Auditor (Buildings).
- (8) Every owner shall submit a notice of completion of the building in Form X to the authority having jurisdiction on the completion

of work including the works related to energy conservation measures specified in the sanctioned permit along with the certificate in Form XI issued by the Certified Energy Auditor (Buildings) certifying the completion of the building accompanied by -

- (a) the duly completed compliance forms together with check list of various components covered under rule (3) at the completion stage which shall include the followings-
 - (i) review of heating, ventilation and air-conditioning component tables for air-handling equipment, refrigeration equipment, condensing equipment, air-flow summaries, tables showing lighting equipment specifications, and tables showing motor specifications;
 - (ii) inspection of lighting equipment like lamps, ballasts, to confirm fixture wattage and inspection shall include at least random check across according to the type of usage in the building to determine lighting power density;
 - (iii) review the required lighting controls such as manual switching off perimeter, day lighting circuits, automated occupancy based control, photo sensor controls, and automated timer based controls;
 - (iv) review of coefficient of performance values of installed heating, ventilation and air-conditioning equipment and control equipment;
 - (v) review of efficiencies of installed motor and controls;
 - (vi) review of power factor and power distribution losses;
 - (vii) review the required check metering and monitoring system.
 - (b) a list of the energy related building features in the proposed design, if any, which are different from the sanctioned or standard baseline design;
 - (c) all documents and invoices in support of the construction undertaken with respect to all energy conservation measures including insulation, fenestration, heating, ventilation and air-conditioning, lighting and electrical systems, water heating systems of the building.
 - (d) the authority having jurisdiction may cross check and verify if the construction has been done in accordance with ECBC.
- (9) If the energy performance index ratio at the completion stage is less than or equal to one (1) as compared to that of the

sanctioned plan of the building, it shall be deemed to have complied with the Code and these rules.

- (10) If there is deviation in the energy performance index ratio of the sanctioned plan that is it is more than one as compared to the sanctioned plan of the building, Certified Energy Auditor (Buildings) shall record its findings Form XII and communicate the same to the owner and seek compliance of the same through incorporation of additional energy conservation measure. The Certified Energy Auditor (Building) shall render technical assistance to the owner to ensure that the proposed design of building becomes compliant with these rules.
- (11) The owner shall neither occupy nor allow any other person to occupy the building or part of the building covered under these rules for any purpose until such building or such part thereof has been granted occupancy certificate under the bye-laws of the authority having jurisdiction.
- (12) The owner shall give notice of completion of the building and seek permission for occupancy.
- (13) The authority having jurisdiction on receipt of such notice by the owner accompanied by a certificate by the Certified Energy Auditors (Building), issue the occupancy certificate in Form XIII incorporating inter alia the following conditions, namely: -
 - (i) that the energy performance of the building shall be monitored and verified by the Punjab Energy Conservation Building Code Implementation Committee;
 - (ii) that the owner through the Certified Energy Auditors (Building) shall submit to PEDDA, an energy performance index report as per Form XV under intimation to Bureau for two consecutive years after the building has been fully operational;
 - (iii) in case the energy performance index ratio of the building is more than one, the authority having jurisdiction may issue a provisional occupancy certificate subject to the condition that the owner shall undertake energy audit of the building to identify additional energy conservation measures to achieve the energy performance index ratio of the building less than one as approved in the sanctioned plan or permit within a period of three years;
 - (iv) if the owner fails to achieve the energy performance index ratio as specified in clause (iii) of sub rule (14) of rule 5, within a period of three years from the date of occupancy of the building the authority having jurisdiction shall place the matter before the Punjab Energy Conservation Building Code Technical Grievances Redressal Committee, which shall hear the owner and the Certified Energy Auditors (Building) and make recommendations in the matter accordingly and the authority having jurisdiction shall comply with such recommendations.

- (14) The process shall be continued repeatedly till energy performance index ratio of the building comes to less than one or equal to one and the Certified Energy Auditor (Building) shall fill and submit the compliance documents, as specified in Appendix D of the Code, of various energy conservation measures at each stage namely, design, construction and completion, to achieve conformity with the Code and these rules.
- (15) The simulation tool referred in clause (b) (ix) of sub-rule (4) of rule 5 shall be based on the standard method of test for the evaluation of building energy analysis computer program.
- (16) The owner may approach the Punjab Energy Conservation Building Code Compliant Technical Grievances Redressal Committee for redressal of any grievance under the provisions of these rules.
- (17) No Objection Certificate by Certified Energy Auditors (Buildings) in Form XIV shall be mandatory for PSPCL to release electricity connection / extension(s) in load of 100 kW or above or contract demand of 120 kVA or above or buildings having built-up area of 1000 m² or above, categorized under the types mentioned in sub rule (1) of rule 3.

6. Committees –

- (1) **PEDA** shall constitute –
 - (a) Punjab Energy Conservation Building Code Implementation Committee headed by Additional Chief Secretary, Principal Secretary, Secretary, Department of NRES, Govt. of Punjab or his nominee and comprising of all stakeholders including a nominee from Bureau, to–
 - (i) Promote energy efficiency standards through optimization of parameters in the various components and systems of the building in line with the provisions of these rules to enhance the building performance and provide every support to it to make it an effective instrument of promoting energy conservation and energy efficiency in the commercial buildings or establishment;
 - (ii) Forward its recommendations to the Bureau to assist the National Energy Conservation Building Code Implementation Committee to develop and revise energy consumption standards for buildings, in terms of energy performance index, Composite climate zone (for the state of Punjab), classification-wise;

- (iii) Create awareness about Energy Conservation Building Code and procedure for erection of Code compliant building;
 - (iv) Promote construction of energy efficient buildings ensuring quality and consistency in their constructions having regard to the climatic conditions and needs of the building projects;
 - (v) Promote capacity building of building professionals, developers and contractors to promote energy efficient designs of buildings in close co-ordination with authority having jurisdiction;
 - (vi) Undertake performance review of annual work of all Certified Energy Auditor (Building) to check their credentials;
- (b) Prepare a summary of violations which shall be provided by PEDDA to the Bureau and review such violations for the purpose of evaluating his professional skills;
 - (c) Prepare a yearly report and furnish the same to the Bureau indicating inter alia the progress made in compliance of these rules in the state of Punjab and the steps taken by PEDDA to improve the rate of compliance of Code in the state of Punjab;
 - (d) Create data base through compilation of data of energy performance index and its ratio achieved by each building constructed after coming into force of these rules;
 - (e) Punjab Energy Conservation Building Code Compliant Technical Grievances Redressal Committee headed by an officer of Department of Housing & Urban Development, with other members, not exceeding four, nominated by the Punjab Energy Conservation Building Code Implementation Committee who are qualified by experience and training to pass judgment upon matters pertaining to construction of Code compliant building in the state of Punjab, to—
 - (i) Hear grievances filed by the owner of a Code complaint building within the specified time period given by the authority relating to the building permit, completion certificate, occupancy certificate of building including determination of the energy performance index ratio at the completion stage and interpretation of these rules or any other grievance arising out of the implementation of the Code and these rules;

- (ii) Make recommendations to the authority having jurisdiction to reconsider such issue/s, or for implementation by the authority having jurisdiction, as the case may be.
- (2) The Bureau shall establish a National Energy Conservation Building Code Implementation Committee under the Chairmanship of Director-General of the Bureau. The concerned programme manager in the Bureau shall be the Member-Secretary of the said Committee which shall consist of the following others members, namely: -
 - (a) One representative each nominated by all State designated agencies preferably Empanelled Energy Auditors (Building) dealing with the Code compliant buildings in each State;
 - (b) A representative of Bureau of Indian Standards;
 - (c) A representative of Ministry of Housing and Urban Affairs;
 - (d) A representative of Central Public Works Department;
 - (e) A representative of Construction Industry;
 - (f) A representative of Council of Architecture;
 - (g) Any other member, who may be nominated by the Chairperson.
- (3) The National Energy Conservation Building Code Implementation Committee shall evaluate the recommendations of the State Energy Conservation Building Code Implementation Committee sent under sub-clause (ii) of clause (a) of sub-rule (1) of Rule (6) and finalize its recommendations regarding formulation of national energy consumption norms and standards climate zone wise, classification-wise of Code compliant buildings.
- (4) Where the subject has been so evaluated and the need of having a uniform standard is established, the Bureau, under sub-section (3) of section 8 of the Act, may constitute a Technical Committee comprising of persons having adequate knowledge in the area of building energy efficiency to have interaction with various stake holders for the purpose and prepare a draft standards, widely circulate the same including State designated agencies for a period of not less than forty-five days for critical review and suggestions and finalize the draft standards.
- (5) The recommendations of the National Energy Conservation Building Code Implementation Committee shall be placed before the Governing Council through Management Advisory Committee for direction and approval.
- (6) The Bureau after having received the approval of the Governing Council shall send its recommendations to the Central Government for consideration and approval.

- (7) The recommendations approved by the Central Government may be used for updating the Code.

7. Penalty

The penalty will be imposed as per Section 26 & 27 of The Energy Conservation Act-2001.

8. Responsibilities and duties of the owner.-

- (1) The owner of the Code compliant building shall carry out the work of the said building in accordance with the requirements of the Code and these rules.

- (2) Every owner shall-

(a) Engage Certified Energy Auditor (Buildings) in development of building design, installation of energy conservation measures and equipment to meet with the requirements of these rules and ensure following, namely: –

- (i) Finalize the compliance approach relevant for his building project based on the complexity of the building, budget and time constraints;
- (ii) Finalize the energy conservation measures as per the Code as amended from time to time having regard to the location of the proposed building;
- (iii) To integrate the energy conservation measures in the building design in accordance with the provisions of these rules;
- (iv) That drawings, specifications and compliance forms are prepared and energy conservation measures are reflected in the building design documents and submitted to authority having jurisdiction in compliance with the requirements of the rules accompanied by a certificate specifying the energy performance index ratio of the building by the Certified Energy Auditor (Buildings) that the documents are as per the requirement of these rules;
- (v) Notice is given within the validity of sanction to authority having jurisdiction of his intention to start the construction work at the building site;
- (vi) Commence the work within the period specified by the authority having jurisdiction from the date of such notice or seek extension of time for starting the construction work, wherever necessary;
- (vii) Ensure that the designed energy conservation measures are deployed in the construction of the

building and installation of its components and systems.

- (b) Permit the Certified Energy Auditor (Buildings) and/ authority having jurisdiction to enter the building or premises at any reasonable time for the purpose of inspection to ensure compliance of building works with rules and regulations under the act;
- (c) Give written notice to authority having jurisdiction intimating the completion of the construction work along with a certificate from the Certified Energy Auditor (Buildings) to the effect that-
 - (i) The construction of the building has been done in accordance with the sanction of the building permit;
 - (ii) All the energy conservation measures have been installed and inspected, and they meet the requirements of the Code and these rules;
 - (iii) The building design meet with the provisions of the Code and these rules;
- (d) Give written notice to authority having jurisdiction in case of termination of the services of Certified Energy Auditor (Buildings) and appointment of other Certified Energy Auditor (Buildings) in its place;
- (e) Obtain an occupancy permit from authority having jurisdiction prior to any occupancy of the building or part thereof after completion of the building;
- (f) Report the practical difficulties to the Certified Energy Auditor (Buildings), if any, in carrying out the provisions of these rules, who shall take necessary action in consultation with authority having jurisdiction;
- (g) On the receipt of the notice, if any, from the authority having jurisdiction, he shall discontinue such usage within reasonable time as specified in such notice and in no case he shall disregard the provisions of these rules;
- (h) Where he proposes to alter the installation of any system or material or equipment on account of improving the energy efficiency of the building contrary to the system, material or equipment as indicated in the sanction plan he shall use or install such system or material or equipment after obtaining the necessary approval of the Certified Energy Auditor (Buildings):
 - (i) Provided that it does not violate the spirit and intent of the provisions of these rules:
 - (ii) Provided further that such change shall not compromise with the building requirements namely, structural stability, safety, health or

environmental provisions of central laws & state laws applicable to the buildings covered under these rules.

- (3) The owner may approach the Energy Conservation Building Code compliant Technical Grievances Redressal Committee for redressal of any grievance under the provisions of these rules.

9. Roles, Responsibilities and Duties of the Certified Energy Auditor (Buildings).

- (1) The Certified Energy Auditor (Buildings), whose services are engaged by the owner, shall-
 - (a) Verify and certify-
 - (i) the design of the building keeping in view the design criteria, energy goals of the project, energy systems performance verification plan, and the modelling approach;
 - (ii) the energy conservation measures based on the design approach for the project under consideration;
 - (iii) construction documents and compliance documents, compliance forms and checklists specified to ensure that the building complies with the Code and these rules;
 - (iv) energy performance index ratio of the proposed building ;
 - (b) furnish a certificate under its seal and authorized signature to the effect that drawings, specifications, construction documents, compliance documents and forms prepared covering building envelope, comfort system and controls, lighting and electrical power systems, wherever applicable, and all other Code related documentation prepared for submission to authority having jurisdiction ensuring compliance with these rules;
 - (c) inspect the building works from the design stage to its commissioning stage of buildings including their uses under these rules and based on his certification, authority having jurisdiction shall issue building permit, approve construction of building, issue completion and occupancy certificates;
 - (d) the Certified Energy Auditor (Buildings) shall ensure that none of the professionals or employees working under him/her is engaged in any work in connection with the construction or alteration of the concerned building covered under these rules to ensure that there is no conflict of interest with his/her official duties with the interests of authority having jurisdiction;

- (e) report to authority having jurisdiction on such unusual technical issues that may arise due to issue of building permit or construction of building or during occupancy stage;
- (f) provide inputs to National & State Energy Conservation Building Code Implementation Committee to facilitate for better implementation of the Code and these rules;
- (g) promote norms and standards specified in the Code.

10. Responsibilities and duties of State Designated Agency-

- (1) The state designated agency established by every State Government under clause (d) of section 15 of the Act, in consultation with Bureau, shall-
 - (a) Coordinate, regulate and enforce provisions of the Code and these rules for efficient use of energy and its conservation under the EC Act in the State of Punjab;
 - (b) Ensure every commercial building or establishment having a connected load of 100 kW or above, or contract demand of 120 kVA or above or total built-up area of 1000 m² or above to be constructed in compliance with these rules;
 - (c) Monitor the performance of the Certified Energy Auditor (Buildings) to improve the quality, consistency and rate of compliance of these rules with a view to make the cadre of Certified Energy Auditor (Buildings) as effective instruments for promotion of energy efficiency in the building sector in the State of Punjab;
 - (d) Create a data bank to measure the compliance rates of the Code compliant buildings and accurately account for the energy savings resulting from the compliance of these rules;
 - (e) Also create a data bank on energy use per square meter of area of the building in Punjab under composite climate;
 - (f) Take necessary steps to make energy performance index as a measure to comply with these rules in the various categories of buildings and send its recommendations to the Bureau for the formulation of energy consumption norms and standards in respect of various categories of buildings constructed zone-wise in its State of Punjab;
 - (g) Arrange conduct site visits, if considered necessary, to determine the accuracy of reporting by Certified Energy Auditor (Buildings) in the State of Punjab;
 - (h) Prepare a report on performance of Certified Energy Auditor (Buildings) listing out the projects complying with these rules, projects in violation of compliance with these

rules and the level of violation, and provide summary of such violations for each year to the Bureau of Energy Efficiency;

- (i) Coordinate with the authority having jurisdiction to amend their building bye-laws incorporating the provisions of these rules for the purpose of construction of buildings in compliance with the Code and these rules;
- (j) Provide necessary support to the authority having jurisdiction to conform to the provisions of these rules with regard to matters concerning design construction including energy conservation measures and occupancy for improving the energy performance of Code compliant buildings and effectiveness in compliance of these rules.

11. Responsibilities and duties of the stakeholder departments authority having jurisdiction (Department of Local Government / Department of Town & Country Planning / Department of Housing & Urban Development / PSPCL) –

- (1) Department of Local Government / Department of Housing & Urban Development / Department of Town & Country Planning & PSPCL shall ensure the implementation of Energy Conservation Building Code in the commercial buildings, having connected load of 100kW or above or a contract demand of 120KVA or above or a total built-up area of 1000 m² or above in buildings listed in sub rule (1) of rule (3).
- (2) The concerned stakeholder departments shall ensure undertaking from owner, Architect/Firm responsible for the construction of the building, at the change of land use stage.
- (3) The concerned department shall ensure undertaking from owner and certificate from Certified Energy Auditor (Buildings) before awarding building permit.
- (4) At construction stage, the works / certificate of the certified Building Auditor (Buildings) shall be verified randomly at site by the officials of the concerned stakeholder departments. If any discrepancy noticed regarding certification of the works by the Certified Energy Auditor (Buildings), the concerned stakeholder departments shall intimate to owner / architect as per the process of implementation of ECBC Compliance.
- (5) PSPCL shall ensure 'No Objection Certificate' from the Certified Energy Auditor (Buildings) for releasing electrical meter connections / extensions for load above connected load of 100kW or above or a contract demand of 120KVA or above or for buildings having a total built-up area of 1000 m² or above.

12. Miscellaneous

- (1) The use of any energy conservation measures or method or design or construction not specifically specified under these rules shall not be prevented by the authority if such energy conservation measures or method or design or construction is found to be satisfactory by the Punjab Energy Conservation Building Code Compliant Technical Grievance Redressal Committee and such energy conservation measures or method or design or construction assist the owner in optimizing the energy performance index ratio in the use of energy on its occupancy.
- (2) The Code shall be reviewed periodically, at least once in five years, to determine the need for revision or withdrawal of standards specified in the Code, and such standards which in the opinion of the Bureau need no revision or amendment shall be reaffirmed.
- (3) All the concerned stakeholder departments shall amend their rules / bye-laws within a period of six months from the date of issue of this order to ensure the implementation of these rules.
- (4) The concerned stakeholder departments shall submit quarterly progress reports of ECBC Compliant buildings to PEDDA.

Chandigarh
The

(ANURAG AGARWAL) IAS
Additional Chief Secretary to Government of Punjab,
Department of New & Renewable Energy

List of Forms			
Sr. No.	Form No.	Reference Clause	Description
1	Form I (a)	5(1)	Undertaking by owner for construction of the Energy Conservation Building Code compliant building for change of land use
	Form I (b)		Undertaking by Architect/Architect Firm/Project Management Company for construction of the Energy Conservation Building Code compliant building for change of land use
2	Form II	5(2)	Application for seeking building permit in respect of erection/ re-erection/making alteration in the Energy Conservation Building Code compliant Building
3	Form III	5(2) (a)	Undertaking by owner for construction of the Energy Conservation Building Code compliant building
4	Form IV	5(2) (c) (ii) & 5(5) (a)	Certificate from Certified Energy Auditors (Buildings) to be enclosed with the application for Building Permit for Energy Conservation Building Code compliant building.
5	Form V	5(4) (e) (i)	Certificate of Inspection by Certified Energy Auditors (Buildings) on review of Building Permit Application in respect of the proposed building - Communication of omissions and non-compliance to owner
6	Form VI	5(4) (f)	Certificate of Inspection by Certified Energy Auditors (Buildings) on review of building permit application enclosing construction documents and compliance forms in respect of Energy Conservation Building Code compliant building
7	Form VII	5(6) (a)	Notice for commencement of construction work of Energy Conservation Building Code compliant building
8	Form VIII	5(7) (b) & (d)	Certificate of Inspection by Certified Energy Auditors (Buildings) on review of construction works enclosing construction documents and compliance forms in respect of Energy Conservation Building Code compliant building-Issue of certificate of compliance
9	Form IX	5(7) (c)	Certificate of Inspection by Certified Energy Auditors (Buildings) on review of construction works enclosing construction documents and compliance forms in respect of Energy Conservation Building Code compliant building-Issue of certificate of non-compliance
10	Form X	5(8)	Notice of completion

11	Form XI	5(8)	Certificate of Inspection by Certified Energy Auditors (Buildings) on review of completion of construction works enclosing construction documents and compliance forms in respect of Energy Conservation Building Code compliant building -Issue of certificate of compliance
12	Form XII	5(10)	Certificate of Inspection by Certified Energy Auditors (Building) on review of completion of construction works in respect of Energy Conservation Building Code compliant building-Communication of omissions and non-compliance to owner
13	Form XIII	5(13)	Occupancy Certificate, To be issued by Authority having jurisdiction in their occupancy certificate
14	Form XIV	5(17)	Certificate of compliance/ Non-compliance – for releasing Electric Connection
15	Form XV	5(13) (ii)	Energy performance index Report Submission by Certified Energy Auditors (Buildings) to PEDDA after the building has become fully operational

Form I (a)

[See rule 5(1)]

[Undertaking by owner for construction of the Energy Conservation Building Code compliant building for change of land use]

I/We am/are the owner(s) of the Plot No. _____ Block No. _____ in the city of _____, in the state of _____, propose/s to construct a building intended to be used for commercial purpose. The proposed building having connected load of 100kW or above or a contract demand of 120KVA or above / a total built-up area of 1000 m² or above.

The proposed land shall only be used for construction of building incorporating the provisions of Punjab ECBC Rules 2020. Certified Energy Auditor (Building) Sh. _____ (Name), being an authorised Certified Energy Auditors (Building) vide order No. / dated _____ have been appointed for incorporating the provisions of Punjab ECBC Rules 2020 for the proposed building in the aforesaid plot. I/we undertake that the aforesaid land shall be used for construction of building in accordance with the bye-laws of the concerned authority having jurisdiction.

I/We further undertake that the information supplied in the enclosed drawings and the application is accurate to the best of our knowledge and if any of the information supplied is found to be incorrect and such information result in loss to the Central or the Punjab Government or any other authority under them. I/We, undertake to indemnify such loss.

Signature

Date

(Name of the owner)

Address

Mobile No/ Tel No

Signature:

Certified Energy Auditors (Buildings):

Registration No/ Seal:

Mobile no:

Date:

Form I (b)

[See rule 5(1)]

[Undertaking by Architect/Architect Firm/Project Management Consultancy for construction of the Energy Conservation Building Code compliant building for change of land use]

I/We am/are Architect/Architect Firm /the Project Management Consultancy having Licence No / registration No _____ being assigned the contract for designing & construction of the proposed building of the Owner M/s / Shri _____ on the Plot No _____, Block no _____ in the city of _____ in the State of _____;

I/We understand the significance of Energy Conservation Building Code. I/We hereby undertake that the Energy Conservation Building code shall be considered in the aspect of designing & construction works of the proposed building in the aforementioned plot under the guidance of a certified Energy Auditor (Buildings) appointed by the owner.

I/We undertake that the aforesaid land shall be used for construction of building in accordance with the bye-laws of the Authority and the provisions of the Punjab ECBC Rules 2020. In case any deviations are noticed during the construction of the Building, I/we shall rectify the deviations with the permission of authority having jurisdiction.

Signature:-

Name of the Architect/Authorized signatory:-

License No / Registration No:-

Office Address:-

Registration No / Seal:-.

Date:-

Form II

[See rule 5(2)]

[Application for seeking building permit in respect of erection/ re-erection/making alteration in the Energy Conservation Building Code compliant Building]

To

The Commissioner or (name of the competent authority)

Authority having jurisdiction,

Name of the city

Name of the State

Date:

__/__/____

Subject: Application for erection of Energy Conservation Building Code compliant building in premises of Plot no._____ Block No. _____ Scheme _____ Street _____ Name of the town/city

Sir,

I/We the undersigned hereby give you notice of my intention to erect /re- erect/alter Energy Conservation Building Code Compliant Building under the Punjab ECBC Rules 2020 in the premises of plot No._____ Block No._____ Scheme_____ and request for the issue of building permit for the construction of the Energy Conservation Building Code complaint building. The following documents are enclosed.

- (i) Construction Documents and Compliance Forms together with check-lists incorporating the installation of Energy Conservations Measures specified in the aforesaid rules.
- (ii) The Construction Documents and Compliance Forms together with check-lists have been verified by Shri----- Regd. number_____ Certified Energy Auditor (Buildings). An undertaking in Form III duly signed and sealed in this regard is enclosed.

Yours faithfully,

Signature
(Name of the owner)
Address:-
Tel No. / Mobile No:-

Form III

[See rule 5(2) (a)]

[Undertaking by owner for construction of the Energy Conservation Building Code compliant building]

I/We am/are the owner(s) of the aforesaid Plot No. _____ Block No. _____ and the proposed building on completion of construction shall have a connected load/contract demand of 100 kW/120 kVA or above / a total built up area of 1000 m² or above and is proposed to be constructed to use or intended to be used for commercial purposes.

The proposed building accordingly attracts the provisions of Punjab ECBC Rules 2020. I/we undertake that the aforesaid building shall be constructed in accordance with the bye-laws of the Authority and the provisions of the Punjab ECBC Rules 2020. In case any deviation is noticed during the construction of the Building, I/we shall indemnify the loss to the authority having jurisdiction.

I/ we further undertake that the information supplied in the enclosed drawings and the application is accurate to the best of my/our knowledge and if any of the information supplied is found to be incorrect and such information result in loss to the Central or the Punjab Government or any other authority under them. I/ we undertake to indemnify such loss.

Signature

Date:

(Name of the owner):-

Address:-

Mobile No/ Tel No:-

Form IV

[See rule 5(2) (c) (ii) & 5(5) (a)]

[Certificate from Certified Energy Auditors (Buildings) to be enclosed with the application for Building Permit for Energy Conservation Building Code compliant building]

Certificate

Compliance Certificate No _____

I/We am/are Certified Energy Auditors (Buildings) having registration No / _____ under the Energy Conservation Act 2001 (52 of 2001) and am authorized to scrutinize and verify the design of Energy Conservation Building Code compliant building. I/We certify that –

- (a) I/We have scrutinized the construction documents, undertaking given by the owner duly signed by the owner/design professional showing all the pertinent data and features of the building, equipment and systems in sufficient details covering building envelop, heating, ventilation and air-conditioning, service hot water, lighting and electrical power in accordance with municipal bye-laws and with the Punjab ECBC Rules 2020 in respect of building proposed to be constructed on plot on -----block no----- scheme in the city of _____ in the State of _____;
- (b) I/We have scrutinized the compliance forms with the check- lists to ensure compliance with the bye-laws and the Punjab ECBC Rules 2020.
- (c) The compliance documents have been duly inspected by the undersigned.
- (d) The energy performance index ratio of the building design as per compliance documents, at the design stage is equal to or less than one and is therefore in compliance with the Punjab ECBC Rules 2020.
- (e) It is certified that all required scrutiny and verification of the documents submitted have been carried out diligently, truthfully and all reasonable professional skill, care and diligence have been taken in scrutinizing and verifying the drawings of the buildings and compliance forms together with check–lists covering the various components of the Punjab ECBC Rules 2020.
- (f) The contents of all the documents submitted along with the application are a true representation of the facts and nothing has been concealed.

There is no objection for issue of building permit in respect of the aforesaid proposed building in so far as requirements of Punjab ECBC Rules 2020 are concerned.

Signature:

Name of the Certified

Certified Energy Auditors (Buildings):

Registration No/ Seal:

Mobile no:

Date:

Form V

[See rule 5(4) (e) (i)]

[Certificate of Inspection by Certified Energy Auditors (Buildings) on review of Building Permit Application in respect of the proposed building - Communication of omissions and non-compliance to owner]

To

Shri _____,

Non - Compliance

No _____

Address

Date _____

Subject: Application for erection of proposed Building in premises of Plot no. _____ Block No. _____ Scheme _____ Street _____ Name of the town/city- Details of omission /non-compliance with the Energy Conservation Building Code Rules 2020 on design stage inspection

Sir,

I/We,.....(Name), being an authorised Certified Energy Auditors (Buildings) vide order No. _____ hereby state I/we have reviewed and verified the undertaking given by you and have inspected the construction documents, compliance forms, check-lists, submitted along with building permit application in respect of the various elements specified in sub-rule (3) of rule 5 of the various components of the proposed building in respect of the subject building and inform that the following omission/non-compliance have been discovered on inspection –

(i)

(ii)

(iii)

(iv)

It is requested that the necessary energy conservation measure in consultation with your design team be carried out in order to bring them in compliance with the Punjab ECBC Rules 2020. You are accordingly requested to take corrective action within a period of one month from the date of issue of this letter. Further action on your application for issue of building permit shall be taken after satisfactory compliance of the aforesaid omission/non-compliance.

Signature:

Name of the Certified Energy
Auditors (Buildings):

Registration No/ Seal:

Mobile no:

Form VI

[See rule 5(4) (f)]

[Certificate of Inspection by Certified Energy Auditors (Buildings) on review of building permit application enclosing construction documents and compliance forms in respect of Energy Conservation Building Code compliant building]

Compliance Certificate No _____

I/We,.....(Name), being an authorised Certified Energy Auditors (Building) vide order No._____ hereby state that I/we have reviewed and verified the undertaking given by the owner, and have inspected the construction documents, compliance forms, check-lists, submitted along with building permit application in respect of the various elements of the proposed Energy Conservation Building Code compliant building in the premises of plot No._____ Block No._____ Scheme _____ Town/City_____ State of_____ and certify that the

- (i) The omission/non-compliance pointed out by the undersigned in the certificate of Non Compliance No..... dated have been complied satisfactorily;
- (ii) The energy performance index ratio calculation match with the data given in the aforesaid documents and is in compliance with the Punjab ECBC Rules 2020.

I/We further certify that –

- (a) All reasonable professional skill, care, and diligence have been taken in verifying the compliance forms in respect of the various elements of the components covered in Punjab ECBC Rules 2020 and contents thereof are a true representation of the facts and meet the requirements of Punjab ECBC Rules 2020.
- (b) There is no objection for issue of building permit in respect of the aforesaid proposed building in so far as requirements of Punjab ECBC Rules 2020 are concerned.

The check-list duly completed and signed by the undersigned is enclosed.

Signature:

Name of the Certified Energy Auditors (Buildings):

Registration No/ Seal:

Mobile no:

Date:

CC: Competent Authority
Authority having Jurisdiction
Address

Form VII

[See rule 5(6) (a)]

[Notice for commencement of construction work of Energy Conservation Building Code compliant building]

To _____
____/____/____

Date:

The Commissioner or (name of the competent authority)

Authority having jurisdiction,

Name of the City

Name of the State

Subject: Erection of Energy Conservation Building Code compliant building on premises of Plot no. _____ Block No. _____
Scheme _____ Street _____ Name of the town/city-Notice for commencement of building construction works

Sir,

I/We hereby give notice for commencement of building works including implementation of Energy Conservation Measures for erection of Energy Conservation Building Code compliant building in the aforesaid site i.e. Plot No.scheme.....street in pursuance of the sanction granted by the Authority having jurisdiction/*vide* file No. /letter No.....

Yours faithfully

Signature of the owner

Name of the owner:-

Address & Mobile No of the owner:-

Form VIII

[See rule 5(7) (b) & (d)]

[Certificate of Inspection by Certified Energy Auditors (Buildings) on review of construction works enclosing construction documents and compliance forms in respect of Energy Conservation Building Code compliant building-- Issue of certificate of compliance]

To

The Owner,
Certificate No _____

Compliance

Address
//_

Date:

I/We,.....(Name), being an authorised/**Certified Energy Auditors (Building)** vide order No._____ hereby state I/we have reviewed the undertaking given by the owner, **energy conservation measures installed during the construction works** and have reviewed the construction documents, compliance forms, check-lists, submitted along with progress in construction works in respect of the various elements of the components referred to in sub-rule (7) of Rule 5 of the proposed Energy Conservation Building Code compliant building in the premises of plot No._____ BlockNo._____ scheme_____ Town/City_ _____ State of _____

and certify that the energy performance index ratio calculation match with the data given in the aforesaid documents;

I/We further certify that all reasonable professional skill, care, and diligence have been taken in verifying the construction document and compliance forms in respect of the various elements of the components covered in Punjab ECBC Rules 2020 and contents thereof are a true representation of the facts and meet the requirements of Punjab ECBC Rules 2020.

The check-list duly completed and signed by the undersigned is enclosed.

Signature

Name

**Certified Energy
Auditors (Building)**

Registration No:-

Mobile number:-

Seal

CC: Competent Authority
Authority having Jurisdiction
Address

Form IX
[See rule 5(7) (c)]

[Certificate of Inspection by Certified Energy Auditors (Buildings) on review of construction works enclosing construction documents and compliance forms in respect of Energy Conservation Building Code compliant building- Issue of certificate of non-compliance]

To

Shri.....

Owner

Non Compliance

Certificate No _____

Address

Date: __/__/_____

Sub: Erection of Energy Conservation Building Code compliant Building on premises of plot no. _____ block no. _____ scheme _____ street _____ name of the town/city-Communication of findings by the certified Energy Auditors (Building)

Sir/Madam

I/We, (Name). being an authorised/Certified Energy Auditor (Buildings) vide order No. _____ hereby state I/we have review the undertaking given by the owner, and energy conservation measures under construction and have reviewed the construction documents, compliance forms, check-lists, submitted along with progress in construction works in respect of the various elements of the components of the proposed building in the premises of plot no. _____ Block No. _____ Scheme _____ Town/City _____ State of _____ and have to state that the construction has not proceeded in accordance with the sanctioned plan and has deviated/is deviating from the following provisions of Energy Conservation Building Code Rules 2020 namely:-

(i)

(ii)

(iii)

2. None of the above deviations are covered in the best practices approved by the Punjab Energy Conservation Building Code Implementation Committee.

or

The following deviations are covered in the best practices by the Punjab Energy Conservation Building Code Implementation Committee.

3. The building owner is requested to rectify the above deviations or take the approval of the Punjab Energy Conservation Building Code Technical Grievance Redressal Committee.

4. The building owner after obtaining the approval provided in para 3 above or rectifying the deviations notified in para 1 above may inform the undersigned of the action taken in the matter within one month from the date of approval obtained or rectification completed along with the updated check- list to enable me to inspect the works in connection with the issue of certificate of approval provided in clause (d) of sub-rule (7) of rule 5 of the Punjab Energy Conservation Building Code Rules, 2020.

Yours faithfully

Signature

Name

**Certified Energy
Auditors (Building)**

Registration No:-

Mobile number:-

Seal

CC: Competent Authority
Authority having Jurisdiction
Address

Form X

[See rule 5(8)]

Notice of completion

To

The Commissioner
Authority having jurisdiction
//_/
Address

Date:

Subject: Construction of Energy Conservation Building Code compliant building on plot No. ____ in block No. _____ town _____ Notice of completion of construction of Energy Conservation Building Code compliant works

Sir,

I/We hereby give notice that the erection of the building on plot No.....Block No..... including execution and implementation of the energy conservation measures have been completed in accordance with the plans sanctioned *vide* your office communication No..... dated.....The following documents are enclosed:-

- (i) A certificate of inspection on completion of the aforesaid building from Shri_____ Certified Energy Auditors (Buildings) vide Municipal Authority Order No / dated _____

The building is fit for use for which it has been erected/re-erected/constructed. It is requested that permission to occupy or use the aforesaid building may be granted.

Yours faithfully,

Signature.....

Name of the owner

Plot No.

Block No

Address

Mobile No

CC: Competent Authority
Authority having Jurisdiction
Address

Form XI

[See rule 5(8)]

[Certificate of Inspection by Certified Energy Auditors (Buildings) on review of completion of construction works enclosing construction documents and compliance forms in respect of Energy Conservation Building Code compliant building - Issue of certificate of compliance]

To

Name.....

Owner the Building,

Compliance

Certificate No _____

Address

Date:

__/__/__

Subject: Completion of Construction Works in respect of Energy Conservation Building Code compliant building-

Certificate

I/We,.....(Name(s)),being the authorised Certified Energy Auditors (Buildings) vide order No._____ hereby state that I have verified the undertaking given by the owner, and have inspected the construction documents, compliance forms, check-lists, submitted on completion of building of the proposed Energy Conservation Building Code compliant building in the premises of plot No._____ block No._____ scheme_____ town/City_____ state of_____ and certify that the

(i) The works covered under the Punjab Energy Conservation Building Code Rules 2020 have been completed to the best of my satisfaction. The details of the various components/system completed as per Punjab Energy Conservation Building Code Rules 2020 are given below:

Name of the component Dated

- 1.
- 2.
- 3.
- 4.
- 5.

(ii) The energy performance index ratio of the said building match with the data given in the aforesaid compliance documents specified in para 1 above.

(iii) A list of the energy conservation measures deployed in the construction of aforesaid building enclosed. Necessary approvals required have been taken by the owner.

(iv) The building in my/our view meets the requirements of Energy Conservation Building Code compliant building and is fit for occupancy for which it has been erected.

- (v) I further certify that all reasonable professional skill, care, and diligence have been taken in verifying the construction document and compliance forms in respect of the various elements of the components covered in the Punjab ECBC Rules 2020 and contents thereof are a true representation of the facts and meet the requirements of the Punjab Energy Conservation Building Code rules, 2020.
- (vi) The check-list duly completed, signed sealed by the undersigned is enclosed.

Signature

Name

**Certified Energy
Auditors (Building)**

Registration No:-

Mobile number:-

Seal

CC: Competent Authority
Authority having Jurisdiction
Address

Form XII

[See rule 5 (10)]

[Certificate of Inspection by Certified Energy Auditors (Building) on review of completion of construction works in respect of Energy Conservation Building Code compliant building-Communication of omissions and non-compliance to owner]

To

Shri _____,
No _____

Non Compliance Certificate

Address
//____

Date:

Subject: Application for erection of Energy Conservation Building Code compliant Building in premises of plot no. _____block No. _____ scheme_____ street_____ name of the town/city- details of omission /non-compliance with the Punjab ECBC Rules 2020 on design/completion stage inspection.

Sir,

I/We,.....(Name),being an authorised Certified Energy Auditors (Buildings) *vide* order No._____ hereby state I/we have reviewed and verified the undertaking given by you and have inspected the construction documents, compliance forms, check-lists, submitted on completion of the proposed Energy Conservation Building Code compliant building in respect of the subject building and inform that the following omission/non-compliance have been found on inspection –

- (i)
- (ii)
- (iii)
- (iv)

You are accordingly requested to take corrective action within a period of three months from the date of issue of this letter. Further action on your application for issue of Completion Certificate shall be taken after satisfactory compliance of the aforesaid omission/non-compliance.

Signature

Name

**Certified Energy
Auditors (Building)**

Registration No:-

Mobile number:-

Seal

CC: Competent Authority
Authority having Jurisdiction
Address

Form XIII
[See rule 5(13)]
Occupancy Certificate
(To be issued by Authority having jurisdiction in their occupancy certificate)

To
Name of the owner....
Address.....
Subject: Issue of Occupancy Certificate
Sir,

With reference to your notice of completion of an Energy Conservation Building Code compliant building construction dated.....on plot no.....block no... situated atI/we hereby certify that the said building as per description annexed on plot No. _____Block No.____ Scheme_____ whose plans were sanctioned vide No.....dated.....has been inspected with reference to requirements of Punjab Energy Conservation Building Code Rules, 2020.

1. The building is declared fit for occupancy as follows:

Climate Zone 24-Hour use Building / Regular Building

Hospitals/Hotels/Call Centre/Other Building Types

Annexure

Ground Floor	Description of the building	Usage	connected load
(i) 1st floor
(ii) 2nd floor
(iii) 3r floor
(iv) 4th Floor
(v) etc.

2. The energy performance index ratio of the building on the completion stage is less than or equal to one. The authority having jurisdiction declare the aforesaid building “fit for occupancy” as specified above, subject to the condition that the owner shall undertake energy audit of the building and identify additional energy conservation measures to achieve the compliance with the energy performance index of the building approved in the sanctioned plan.

3. The energy performance of the Building shall be monitored and verified by the Punjab Energy Conservation Building Code Implementation committee for the next two years.

Enclosures: copy of certified completion plan.

Yours faithfully,

(Signature of building official)
Authority having jurisdiction

CC: Competent Authority
 PEDDA
 Address

Form XIV

[See rule 5 (17)]

[No objection Certificate – for releasing Electricity Connection / Extension(s)]

To

Punjab State Power Corporation Limited

Name of the city

Name of the State

Certificate reference: _____

Subject:- No objection Certificate of Energy Conservation Building Code – for releasing electricity connection/extension(s) for Energy Conservation Building Code compliant building.

I/We, (Name), being the authorised Certified Energy Auditors (Buildings) vide order No. _____ hereby confirm that the building in Plot no _____ Block No _____ Town _____ City _____ in the state of Punjab, having a total built up area of _____ m² satisfies the requirements for compliance with Energy Conservation Building Code.

I/We the undersigned have no objection for releasing electricity connection / extension in respect of the aforesaid building as requirements of Punjab ECBC Rules 2020 are concerned.

Signature

Name:

Certified Energy Auditors (Building)

Registration No.:

Mobile No.:

Seal

Date:

Encl: Energy performance index ratio report

CC: Competent Authority
Authority Having Jurisdiction
Address

Competent Authority
PEDA
Address

Form XV

[See rule 5(13) (ii)]

[Energy performance index Report Submission by Certified Energy Auditors (Buildings) to PEDDA after the building has become fully operational]

To

Chief Executive,
Punjab Energy Development Agency
Solar Passive Complex
Plot no. 1-2, Sector 33-D, Chandigarh- 160020

Sub: Energy performance index Report for Energy Conservation Building Code compliant building constructed on Plot no. _____ Block No. _____ Scheme _____ Street _____ Name of the town/city-Communication by the Certified Energy Auditors (Building)

Sir,

I/We,.....(Name),being the authorised/Certified Energy Auditors (Buildings) vide order No._____ hereby state that I/we have reviewed the undertaking given by the owner, energy consumption for year of the proposed building of typein the premises of plot No._____ Block No._____ Scheme_____ Town/City_____ State of_____ and certify that the energy performance index ratio is.....which is less than or equal to one. The EPI report is enclosed.

I further certify that all reasonable professional skill, care, and diligence have been taken to verify the energy consumption of the aforesaid building.

Copies of the electricity bills have been enclosed for your reference.

Yours faithfully

Signature

Name

**Certified Energy Auditors
(Building)**

Registration No:-

Mobile number:-

Seal

Encl: Energy performance Index ratio report as specified in the Appendix D of the Code.

CC: Director, Buildings Programme, Bureau of Energy Efficiency,
4th Floor, Sewa Bhavan, R K Puram, New Delhi – 110 066