



PUNJAB STATE POWER CORPORATION LIMITED

(O/o CE/Commercial, Patiala, Ph. No.0175-2214495)

Regd. Office- PSEB Head Office, The Mall, Patiala-147001

Corporate Identity Number: U40109PB20108GC033813

Tele Fax: 0175-2210320

email: ce-commercial@pspcl.in, seregulation1@gmail.com

Commercial Circular No. 48/2024

To

1. All Er.-in-Chief/ CE (DS),
Under PSPCL.
2. All Dy. CE/ SE (DS),
Under PSPCL.

Memo No. **1102-1127/Supply Code-2024 /Vol.1**

Dated **05.12.2024**

Sub:Guidelines regarding Single Point Supply to Residential Colonies/Multi-Storey Residential Complexes, Co-operative Group Housing Society/Employer AND Single Point Supply to Commercial Complexes/Malls, IT Parks and Industrial Parks/Estate developed under Bye- laws/Rules of the State Govt.

- A) Hon'ble Punjab State Electricity Regulatory Commission (PSERC) vide notification no. PSERC/Secy./Regu. 191 dated 23.10.2024 has notified the (Electricity Supply Code, Standard of Performance and related matter) Regulation, 2024 in short Supply Code-2024. These regulations have come into force w.e.f. 14.11.2024. Supply Code-2024 had been circulated vide CC no. 41/2024 dated 29.10.2024.
- B) The detailed guidelines for implementation of the provisions of Regulation-12 of the Supply Code-2024 regarding all matters related to Supply of electricity to individual consumers in the Residential Colonies/Multi-Storey Residential Complexes, Commercial Complexes/Malls, IT Parks and Industrial Complexes/Parks/ Estates have been circulated vide CC no. 45/2024 dated 12.11.2024.
- C) Regulations-13 and Regulation-15 of the Supply Code-2024 specifies a general terms and conditions for providing Single-point supply/connection for supply of electricity to Residential colonies, multi-storey residential complexes, co-operative group housing societies, employer for his employees, commercial complexes/malls, IT parks, and industrial parks/estates (collectively referred to as colonies/complexes). This subject matter was previously governed under Regulation 6.6 (Regulations 6.6.1 & 6.6.2) of the Supply Code-2014, which stands repealed with the commencement of Supply Code-2024 w.e.f. 14.11.2024.
- D) As directed by Commission under Regulation-13 & Regulation-15 of Supply Code-2024, PSPCL shall frame a detailed Model Agreement governing various terms and conditions for Single Point Supply of electricity within 3 months, which shall be approved by the Commission. All the agreements for single point supply of electricity signed between franchisees and PSPCL before commencement of Supply Code-2024 shall be substituted with the provisions of Model Agreement to be approved by Commission as per Supply Code-2024. The existing franchisee agreements shall be

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substituted with the Model Agreement approved by Commission under Supply Code-2024 within 3 months of the approval of Model Agreement.

Therefore, for processing/approval of NOC applications under the Single-Point Supply Scheme before the Model Agreement is approved, NOCs may continue to be issued in accordance with the terms and conditions outlined in Regulations 13 and 15 of the Supply Code-2024. Additionally, a specific condition should be incorporated into all NOCs issued after the commencement of the Supply Code-2024 that the single-point supply will be governed by the detailed terms and conditions of the Model Agreement once it is approved by the Commission.

- E) The guidelines for processing NOC cases under the provisions of Regulation-13 & Regulation-15 of the Supply Code-2024, are given below. Matters related to the conversion between the Individual Connection scheme & Single Point scheme which will be dealt separately. In the event of any inconsistencies, the provisions of the Supply Code-2024 shall prevail.

(E1) Single Point Supply to Residential Colonies/Multi-Storey Residential Complexes and Co-operative Group Housing Society, Employers for his employees:-

The PSPCL shall give supply of electricity for residential purposes including common services on an application by a Co-operative Group Housing Society (hereinafter referred to as Society) which owns the premises at a Single Point for making electricity available to the members of such Society residing in the same premises as specified in The Electricity (Removal of Difficulties) Eighth Order, 2005 or to a franchisee as per 7th proviso to section 14 of the Act (hereinafter referred to as Franchisee) or to a Resident Welfare Association as per Rule 4(14) of Electricity (Rights of Consumers) Rules, 2020, as amended from time to time (hereinafter referred to as Association).

Definitions:-

Housing Society:- Housing Society means a Co-operative Group Housing Society registered with the Registrar Co-operative Societies Punjab.

Resident Welfare Association :- Resident Welfare Association (here in after referred to as the Association) means an association comprising all the property owners within a Co-operative Group Housing Society, Multi storied Building, Residential Colony, or a similar body registered with the State Government.

Franchisee :- Franchisee means a person authorized by PSPCL to distribute electricity on its behalf in a particular area within his area of supply.

(E2) Single Point Supply to Commercial Complexes/Malls, IT Parks and Industrial Parks/Estate :-

PSPCL may give single point connection for supply of electricity to Commercial complexes/Malls, IT parks and Industrial parks/Estate developed under bye-laws/rules of the State Government to the promoter by entering in to a franchisee agreement as per 7th proviso to section 14 of the Act.

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1. Documents for obtaining NOC from PSPCL

- i) For obtaining the NOC from PSPCL for getting single point supply to a colony/complex, the Society or the Franchisee or the Association or promoter (hereinafter referred to as Applicant) shall submit through online single window the complete layout plan of the electrical network i.e. Local Distribution (LD) system proposed to be erected in colony/complex along with complete layout plan of the project approved by the competent licensing authority & other documents prescribed by PSPCL along with the processing fee (at present Rs. 20,000/-) within 45 days of the issue of license.
- ii) In case of the failure of the promoter to approach PSPCL for obtaining NOC within stipulated time of 45 days after issuance of license, the matter shall be taken up by the concerned Dy.CE/SE (DS) with the licensing authority for taking action as per law and conditions of licence.

2. Loading norms for estimation of connected load of colony/complex

Approved loading norms for assessment of estimated connected load of colonies/complexes for planning of the LD system are attached as Annexure-1.

Applicability of this clause:- These loading norms shall be applicable for calculating estimated load of the colony/complex where NOC is issued by the PSPCL on or after the date of commencement of Supply Code-2024 i.e. on or after 14.11.2024.

Accordingly, for already applied NOC applications (i.e applied before 14.11.2024), which are pending at various stages of processing (i.e initial document checking, preparation of technical proposal, issue of 35% BG letter, in case 35% BG already deposited by the developer and NOC yet to be issued upto dated 13.11.2024); load sheet, estimate of LD system & Electrical layout plan needs to be revised as per provisions of Supply Code-2024. Promoter should be intimated on or after 14.11.2024 to amend the load sheet as per provisions of Supply Code-2024 alongwith revised estimated cost of LD system and revised electrical layout plan and submit the same with concerned office.

3. Important points for approval of LD system

As per the Supply Code-2024, the installation of LD systems within colonies/complexes must comply with the CEA (Measures Relating to Safety & Electricity Supply) Regulations, 2023, as amended from time to time. Additionally, Regulation 46(2) of the CEA Regulations mandates that only dry-type transformers (DTs) shall be used inside residential and commercial buildings. In light of the above, the following guidelines should be followed :-

- i) Estimated load of the colony/complex shall be worked out as per the loading norms attached as Annexure-1. While approving the LD system of the colony/complex i.e while issuing NOC, it shall be ensured that the installation conforms to the provisions of CEA (Measures Relating to Safety & Electricity Supply) Regulations, 2023(Annexure-2) as amended from time to time. The provisions of distribution transformers (DTs) in the colony/complex shall be in accordance with Regulation 46(2) of CEA (Measures Relating to Safety & Electricity Supply) Regulations, 2023, which provides that only dry type transformer shall be used inside the residential and commercial buildings.

Note:- It is explicitly stated that dry-type distribution transformers (DTs) are strictly allowed only for installation inside residential and commercial buildings as per specification approved by PSPCL and as per approved vendor of PSPCL. Conversely,

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in areas where distribution transformers are installed outside residential or commercial buildings and exposed to outdoor environmental conditions, only oil-type distribution transformers as per specification approved by PSPCL and as per approved vendor of PSPCL. Under no circumstances oil-type DTs should be used inside residential and commercial buildings, nor dry-type DTs should be used outside these buildings.

- ii) Distribution transformers (DTs)(either dry type or oil type) and other material to be used for the internal LD System of the colony shall be as per the specifications approved by PSPCL and shall be procured from the vendors approved by PSPCL.
- iii) The DTs may be procured by the developer from the PSPCL. However, the applicant shall be at liberty to procure the DTs from the approved vendors of the PSPCL after getting the same inspected from the PSPCL at manufacturer's site. A 21 days notice shall be served on the PSPCL by the applicant to inspect the DTs. In case DTs are not inspected within 21 days from the date of receipt of notice by the PSPCL from the applicant, it shall be deemed to have been inspected and approved by the PSPCL.
- iv) Design of the LD system shall be approved in such a way as to ensure optimum utilisation of electrical network. While calculating the number of DTs or number of 11 kV feeding lines corresponding to the estimated load of the colony/complex, 100% kVA rating of DTs and the 11 kV line shall be considered.
- v) The estimated cost of the LD system shall be worked out by checking/verifying the estimated cost as per latest material rate list issued by office of CE/S&W, PSPCL, Ludhiana. The expenditure of LD system and the 11 kV system in the colony/complex shall include cost of the material and labour plus 16% establishment charges there on.
- vi) It is the responsibility of the applicant to provide complete electrical infrastructure including the provision of the last-mile service cable up to the metering point or MCB for a specific consumer.
- vii) In case the Applicant arrange back-up supply for the consumers/occupiers, it shall be ensured that such back-up supply is recorded separately and such supply shall not intermingle with the supply system of PSPCL.
- viii) The Applicant shall be responsible to operate & maintain all electrical infrastructure, including transformers, required for distribution of electricity within the premises at his own cost.
- ix) **11KV Connectivity charges and System Loading Charges (SLC)**
 - a) The PSPCL shall plan and approve the 11 kV distribution system for providing connectivity and to feed the estimated load of the colony/complex from its distribution network. It is clarified that colony/complex will be fed at 11KV, may be through multiple feeders, based on the estimated load.
 - b) The applicant shall be liable to deposit the connectivity charges which include cost of providing 11 kV supply to the colony/complex and system loading charges (SLC) approved by the Commission in the latest standard cost data. The expenditure for providing 11 kV connectivity shall include cost likely to be incurred by the PSPCL for providing the individual 11kV service line(s) to the colony/complex and proportionate cost of common portion of the distribution main including breaker from nearest feeding grid sub-station

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having power transformer of 33-66/11kV or 132-220 /11kV, as the case may be, which is feeding the 11kV line(s) connected to the colony/complex, as per the Standard Cost Data approved by the Commission.

- c) In case the existing 11kV distribution main is required to be augmented/ extended/bifurcated or a new 11kV line is to be erected to allow connectivity to any colony then such work shall be carried out by PSPCL at its own cost provided the promoter pays the full cost of service line and proportionate cost of the common portion of the augmented/extended /bifurcated /new distribution main including breaker as per the Standard Cost Data approved by the Commission.
- d) After the promoter deposits the SLC of the colony/complex as per Supply Code-2024 read with the Cost data approved by the Commission, it shall be the responsibility of the PSPCL to create necessary capacity at the grid sub-station at its cost to cater the load of the colony/complex including the erection or augmentation of grid sub-station or the transmission network, as may be required by PSPCL.

x) Provision of land for new 66 KV Grid Substation

- a) In case the estimated load of the residential colony/residential complex exceeds 10 MVA as per NOC, the applicant shall also provide land measuring 1500 Sq. Yards with suitable dimensions at collector rates to the PSPCL for the construction of grid substation along with the right of way within the project area for feeding lines. Further, in case the estimated load of the Commercial complexes/Malls, IT parks and Industrial parks/Estate exceeds 10 MVA then the promoter shall also provide land measuring 1500 Sq. Yards with suitable dimensions to the distribution licensee at collector rates for the construction of grid sub-station along with the right of way within the project area for feeding lines or any other suitable place as mutually agreed between the promoter and PSPCL.

The provision regarding land shall be applicable for the NOCs to be issued on or after the date of commencement of these regulations i.e. on or after 14.11.2024.

Applicability of this clause:- The provision regarding land for grid substation as per Supply Code-2024 is not applicable for NOCs already issued before 14.11.2024.

- b) PSPCL shall acquire the land for grid substation before the colony load builds up to 30% of the estimated load or 4 MVA, whichever is earlier. **All matters regarding timely acquisition of land shall be taken up by the concerned Dy. CE/SE (DS) with the promoter, after getting the same approved from standing committee of concerned CE/DS, CE/TS, CE/P&M and CE/Planning.**
- c) In case PSPCL fails to start erection of grid sub-station within 3 years from the date of getting possession of land, the promoter shall be entitled to buy back the allotted land at collector rates prevailing at that time. However, this period may be extended for further period as may be mutually agreed by both parties.

4. Bank Guarantee, Event of default and Validity of NOC

- i) The applicant shall furnish a 35% Bank Guarantee (BG valid for the period of NOC) or amount equivalent to 35% of the sum of the estimated cost of the LD system of the colony, normative cost of providing 11 kV supply and SLC for the full estimated load before issue of NOC by the PSPCL.

Note- It must be ensured by the field office that letter regarding 35% BG should be issued

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within 10 days after approval of the all the documents submitted by the promoter against NOC application.

- ii) **Performance BG:-** The Applicant shall deposit a "performance guarantee" in the form of bank guarantee for an amount equivalent to 20% estimated cost of the LD system for performance of various duties within the complex as per the terms and conditions approved by the Commission in the Model Agreement. Performance BG shall be furnished after issue of NOC, alongwith Model Agreement.
- iii) After original validity period, this 35% BG shall be extended for each block of 3 years by increasing the base value to take care of increase in the cost of material & labour till completion of the LD system as per NOC and deposit of all charges including SLC for total estimated load of the colony/complex as per NOC. At present the expected % age increase in the cost of material & labour is 5% as approved by the Commission.

Note-1:- In line with the spirit of Supply Code-2024, the validity of the NOC is directly interlinked to the validity of the license. Consequently, the extension of the 35% Bank Guarantee (BG) for an additional three years will only be accepted if the promoter provides the extension of license. The validity of the NOC will be extended accordingly by issuing an amendment to the NOC, by aligning it with the extended validity period of the license issued by the competent authority.

Applicability of this clause:- The BG as per this regulation shall be recoverable from promoters to whom the NOC or revised NOC is issued by PSPCL on or after 14.11.2024. Accordingly, for already applied NOC applications (applied before 14.11.2024), which are pending at various stages of processing, 35% BG calculations needs to be revised as per this regulation of Supply Code-2024 and promoter should be intimated revised 35% BG amount on or after 14.11.2024.

Note-2:- As per repealed Supply Code-2014, two separate BGs were required to be submitted by the promoter i.e. initially a 35% BG to be submitted before issuance of the NOC and after issuance of NOC 105% BG to be submitted against the incomplete LD system. However, as per provisions of Supply Code-2024, only one BG, which is 35% BG, is to be submitted by promoter before issuance of NOC and same has to be kept valid till the time complete compliance of NOC is made. Complete compliance of NOC shall mean, the complete development of the LD system of the colony/project as per approved NOC/electrical layout plan issued by PSPCL and payment of total applicable charges as per NOC, which includes 11KV connectivity charges and System Loading Charges (SLC) alongwith Supervision charges.

- iv) The clause pertaining to the event of default, which is to be included in the NOCs issued after the commencement of the Supply Code-2024 shall be as per the detailed Model Agreement to be prepared by PSPCL and approved by PSERC.
- v) Validity of NOC :- Supply Code-2024 provides that the NOC shall be issued for a period of 5 years or for the period of the validity of licence to develop the colony, whichever is earlier.

Note-1:- In some cases the approval given by the competent authority to develop the project is not in the form of license to develop colony. In such cases other project approval documents are submitted with the online NOC application (such as permission to develop

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the project/permission to construct the building, agreement for development of mega projects, allotment letters, regularization certificate of unauthorized colony having provision of obtaining NOC from PSPCL, internal administrative approval of govt. departments to develop the projects etc.) and many times these documents does not specify a validity period of project approval. It has been decided by competent authority that in those cases where it is not possible to ascertain the validity period of project approval documents, NOC will be issued for validity of five years.

Note-2:- In line with the spirit of Supply Code-2024, the validity of the NOC is directly interlinked to the validity of the license. Consequently, the extension of the 35% Bank Guarantee (BG) for an additional three years will only be accepted if the promoter provides the extension of license. The validity of the NOC will be extended accordingly by issuing an amendment to the NOC, by aligning it with the extended validity period of the license issued by the competent authority.

5. Release of temporary connection to the colony/complex

i) Before issue of NOC

- a) The temporary connection to the colony/complex shall be released in the name of applicant only after the applicant applies for NOC (i.e. after issuance of license or approval given by competent authority to develop the project) by uploading all the necessary documents along with requisite processing fee.
- b) Such temporary connection shall be allowed only for site/camp office and other related temporary needs (except development works) up to a load of 20 kW for a period of 120 days or issue of NOC, whichever is later; provided the applicant has completed all the formalities including submission of 35% BG failing which the period shall be restricted to 120 days and after that temporary connection shall be disconnected.

Note:- It is clarified that period of 120 days shall be calculated w.e.f. date of release of temporary connection to the applicant and not date of application of NOC.

Applicability of this clause:- These provisions regarding temporary connection shall also be applicable for already applied NOC applications (applied before 14.11.2024), which are pending at various stages of processing.

ii) After issue of NOC

- a) After deposit of 35% BG and issue of NOC, the temporary connection to the applicant for carrying out development works and other temporary needs shall be released by the PSPCL as per the requirements of the applicant.

iii) Following terms and conditions shall be followed for release of temporary connection:-

- a) The temporary connection shall only be released through smart meter with pre-payment facility.
- b) The competent officer of the PSPCL shall verify the test report to ensure that no load, which is not authorized, is connected by the applicant. It shall be the responsibility of the load sanctioning authority to ensure that the temporary connection is not misused by the applicant.
- c) Any increase of load/demand by the applicant above the sanctioned load/demand shall be dealt with as per General Conditions of Tariff read with relevant Schedule of Tariff (such as demand surcharge/load surcharge as the case may be). The temporary supply to a

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applicant shall be disconnected if the load/demand exceeds the sanctioned load/demand by more than 10% twice in a year.

- d) In case the applicant is found to be misusing the temporary supply including but not limited to using it for the purpose other than for which it was authorised, the PSPCL without prejudice to its right to initiate action under section 126 of the Act read with Regulation 48 and 49 of Supply Code-2024, shall disconnect the temporary supply and such applicant shall not be eligible to get temporary supply from the PSPCL.
- e) The other terms and conditions for regulating temporary supply shall be as per Regulation 17 of Supply Code-2024.

6. Contract demand of the colony/complex

- i) The Applicant may declare the contract demand of the colony/complex which shall not be less than 70% of the estimated load of the colony/complex as per NOC otherwise the estimated load shall be considered for calculating contract demand by using power factor of 0.95.
- ii) Provided that in case connectivity has been released for partially completed LD system, the load for only the electrified area shall be considered to sanction the Contract Demand (CD). After energisation of additional area, the CD shall be revised accordingly.
- iii) Provided that in case of single point supply connection/connectivity already released by PSPCL before the date of the commencement of these regulations, the contract demand already sanctioned irrespective of the estimated load of the colony shall be allowed to continue till the applicant, applies for revision of NOC or change in lay out plan or contract demand or energisation of additional area in case of partial connectivity.

7. Execution of work of the LD system from PSPCL

The applicant may deposit the estimated cost of LD system of the colony/complex as per NOC along with connectivity charges which includes total SLC also and get it executed from the PSPCL. The 35% BG accepted by the PSPCL before issue of NOC shall be returned after the applicant deposit all the requisite charges at the prevailing rates subject to submission of a performance guarantee in the form of a bank guarantee equivalent to 20% of the estimated cost of the LD system and the signing of the model agreement.

8. Execution of work of the LD system by the promoter of its own

- i) The applicant shall have the option to execute the works of internal LD system of the colony/complex of its own in accordance with NOC, subject to payment of 15% supervision charges on the labour cost to the PSPCL.
- ii) In case phase wise development of LD system is carried out by the applicant and requests for energization of partial electrified LD system by availing partial load, then 15% of supervision charges on labour cost of partially electrified LD system shall be recovered and amount of remaining supervision charges shall be recovered whenever balance LD system is installed.
- iii) Supervision charges should be deposited by applicant alongwith schedule of works to be executed, before start of development of LD system. Further, for carrying out supervision of the LD system from time to time during erection & commissioning of the LD works following guidelines should be followed : -

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- a) The applicant shall submit the schedule of works to be executed by the contractor for carrying out the works of LD system.
- b) The progress of works shall be submitted monthly as per specified schedule.
- c) Accordingly, AE/AEE (DS) should ensure that concerned JE/AEE will supervise the work regarding material being used as per PSPCL's specification/approved vendor list. Further it should be ensured that the installation of LD system within colony/complex should be as per the instructions of PSEB(now PSPCL) Manual on Standard Instructions on Distribution System & Construction Practices and maintain the record in the field office.
- d) Any short comings/defects may be pointed out during the visit and same be conveyed in writing to the applicant.
- e) Applicant shall certify that corrective action has been taken as required.
- f) The defects/ short comings may be checked for compliance during the next visit or at the time of release of partial connectivity/release of full connectivity.
- iv) Distribution transformers (DTs) and other material to be used for the internal LD System of the colony/complex shall be as per the specifications approved by PSPCL and shall be procured from the vendors approved by PSPCL.
- v) The DTs may be procured by the developer from the PSPCL. However, the applicant shall be at liberty to procure the DTs from the approved vendors of the PSPCL after getting the same inspected from the PSPCL at manufacturer's site. A 21 days notice shall be served on the PSPCL by the applicant to inspect the DTs. In case DTs are not inspected within 21 days from the date of receipt of notice by the PSPCL from the applicant, it shall be deemed to have been inspected and approved by the PSPCL.
- vi) List of approved vendors, procedure of inspection of DTs and procuring DTs from PSPCL stores was issued by PSPCL vide memo no. 626-34 dated 21.06.2023.

9. General Conditions:-

- i) On completion of LD system, the Applicant shall seek connection at single point from PSPCL by paying the connectivity charges including system loading charges for total sanctioned CD as per NOC.
- ii) The Applicant shall deposit Security (consumption) against sanctioned contract demand and Security (meter) with PSPCL, as approved by the Commission.
- iii) In case the Applicant opts to get connectivity for a partially completed LD system, the Applicant may get contract demand sanctioned corresponding to the estimated load of electrified area against which partial connectivity is being sought by the applicant for the purpose of billing, which shall not be less than 70% of the partial load requested for electrification by the applicant. The Applicant in such case shall deposit cost of providing 11 kV supply for catering the full load/demand as specified in NOC. The System Loading Charges shall be recoverable corresponding to the contract demand sanctioned against partial load of the colony/complex which shall not be less than 70% of the partial load requested for electrification by the Applicant. For energisation of additional area, the load shall be revised and revised contract demand shall be sanctioned accordingly on payment of requisite charges i.e system loading charges and security (consumption) for additional demand at the prevailing rates. The 35% BG furnished by the applicant at the time of NOC shall continue and shall be extended for each block of 3 years by increasing the base

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value as approved by the Commission in the Standard Cost Data to take care of increase in the cost of material & labour till completion of the LD system and deposit of all remaining charges including system loading charges against total sanctioned contract demand.

The connectivity charges including System Loading Charges shall be recoverable from the applicants for the load/demand against which connectivity charges are to be deposited by the applicant with PSPCL on or after 14.11.2024.

- iv) The Applicant shall be responsible to operate & maintain all electrical infrastructure, including transformers, required for distribution of electricity within the premises at his own cost.
- v) Release of individual connections in colonies/complexes:- The Applicant shall be responsible for release of individual connections to the residents/occupier of such colony/complex through meters as specified in Supply Code-2024 and as per the timelines as specified in Supply Code-2024. Each occupier shall submit his application on A&A form prescribed by PSPCL to the applicant and the applicant shall sign the A&A form on behalf of PSPCL.
- vi) Applicant may get Security (consumption) and Security(meter) as approved by the Commission deposited from individual occupiers. In such case the Applicant shall pay interest to the occupiers as specified in Regulation 43 of Supply Code-2024.
- vii) A main meter at the point of supply shall be installed by PSPCL. The Applicant shall be billed for the contract demand sanctioned and the meter consumption. In case of residential colonies/residential complexes, billing shall be as per tariff for Bulk Supply (Domestic) approved by the Commission. In case of Commercial Complexes, the billing shall be as per schedule of NRS tariff. In case of Industrial Park/Estate and IT Park covered under Schedule of Industrial tariff, the billing shall be as per schedule of LS Industrial tariff (General). No voltage rebate shall be admissible as the complex shall be fed at 11 kV. In case the recorded maximum demand exceeds the contract demand sanctioned, action shall be taken as per the provisions of General Conditions of Tariff. In addition, in case the recorded maximum demand exceeds the sanctioned contract demand by 10% twice in a financial year then the highest of the recorded MD during the year shall be deemed to be the revised CD of the colony/complex from the billing month immediately succeeding the billing month during which second default occurs. The promoter shall be liable to pay System Loading Charges and Security (consumption) for the additional demand at the prevailing rates.
- viii) The Applicant shall be responsible for metering, billing, collection of charges from individual users in the colony/complex.
- ix) (a) The Applicant shall be responsible to raise energy bills to the individual residents. The supply of electricity by the Applicant to the residents shall be on "No Profit No Loss" basis.
(b) Further it is provided that the applicant shall not charges more than the tariff approved by the commission for the relevant category of consumers in case of commercial complexes/Malls, IT parks and Industrial parks/estate.
- x) It is provided that the power to disconnect the supply of any consumer located in the colony/complex by the Applicant shall only be in case of default/violation of the terms and conditions as specified in Supply Code-2024.

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- xi) The total billing done by Applicant for the electricity supplied by PSPCL shall not exceed the overall tariff paid to PSPCL.
- xii) Release of connection for common services :-
 - a) For residential colonies/residential complexes :- The connection for common services used primarily to provide basic amenities to the residents viz lifts, school, dispensary, club, community hall, water supply & sewerage etc. in a residential colony shall be billed under Bulk Supply (Domestic) tariff. The other commercial establishments such as shops, multiplex etc. shall be covered under Schedule of NRS tariff for which the applicant shall obtain separate connection.
 - b) For commercial complexes :- The common services shall be billed as per schedule of NRS tariff.
 - c) For Industrial Park/ Estates & IT park covered under Schedule of Industrial Tariff :- The common services shall be billed as per schedule of NRS tariff.
- xiii) Rebate allowed to applicant :-
 - a) For residential colonies/residential complexes :- The Applicant, in lieu of his obligation to maintain the LD system in a residential colonies/residential complexes, carry out billing and collection of energy bills from occupiers etc. shall be allowed a rebate of 5 % on energy charges payable by the Applicant to PSPCL.
 - b) For commercial complexes/Malls and for Industrial Park/ Estates & IT park covered under Schedule of Industrial Tariff :- The Applicant, in lieu of his obligation to maintain the LD system, carry out billing and collection of energy bills from occupiers etc. shall be allowed a rebate of 3 % on energy charges payable by the applicant to PSPCL.
- xiv) The residents of such colonies shall have same rights and obligations as are available to other consumers of the distribution licensee including but not limited to any benefits/concessions/subsidy granted to the consumers by the State Government.
- xv) The residents of such colonies shall have the right to approach Appropriate Forum for redressal of their grievances as specified in PSERC (Forum & Ombudsman) Regulations, 2016, as amended from time to time.
- xvi) In case the Applicant arrange back-up supply for the members it shall be ensured that such back-up supply is recorded separately and such supply shall not intermingle with the supply system of PSPCL.
- xvii) The Applicant shall deposit a "performance guarantee" in the form of bank guarantee for an amount equivalent to 20% estimated cost of the LD system for performance of various duties within the complex as per the terms and conditions approved by the Commission in the Model Agreement.
- xviii) All the provisions of the Act and the Rules read with Supply Code-2024 shall be applicable ipso facto (i.e inevitably) to the Applicants and the occupiers of such colonies.

F) Procedure for dealing with pending NOC applications :-

For already applied NOC applications (applied before 14.11.2024), which are pending at various stages of processing, including those where 35% BG stands received, but NOC is yet to be issued as on 14.11.2024, all these cases shall be sent back to the developer for revising the load sheet, estimate of LD system and electrical layout plan as per applicable

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Regulations of Supply Code-2024. NOCs may continue to be issued in accordance with the terms and conditions outlined above. Additionally, a specific condition should be incorporated into all NOCs issued after the commencement of the Supply Code-2024 that the single-point supply will be governed by the detailed terms and conditions of the Model Agreement once it is approved by the Commission.

According to the Supply Code-2024, the validity of the NOC is directly interlinked to the validity of the license. Therefore, it must be ensured that the promoter holds a valid license, while processing the NOC application. However, in some cases where from project approval document, it is not possible to ascertain the validity period to develop the project, same may be processed as per instructions already given above in para E (4.) (v).

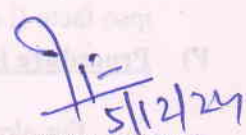
G) Procedure for dealing with cases where NOC stands already issued as per Supply Code-2014 but connectivity charges have not been deposited by developer before 14.11.2024 :-

- i. Regulation 13 and 15 of the Supply Code-2024 provides that all agreements for the single point supply of electricity to Colonies/complexes signed between franchisees appointed under the 7th proviso to Section 14 of the Act and PSPCL, prior to the commencement of the Supply Code-2024 i.e upto 13.11.2024, shall be replaced with the provisions of the Model Agreement to be approved by the Commission. These existing franchisee agreements must be substituted with the Model Agreement approved by the Commission within three months of its approval.
- ii. To address this, it has been decided that during the transitional period, i.e., until the Model Agreement is finalized, developers (franchisees) may sign the Draft Model Franchisee Agreement-2021 issued vide memo no. 2381-2402 dated 28.10.2021, which will be applicable until the Commission's approval of the final Model Agreement.
- iii. Once the Model Agreement is approved by Commission, all existing franchisee agreements will be replaced by the finalized Model Agreement within three months. Promoters/franchisees must also submit an undertaking agreeing to sign and adhere to the terms and conditions of the finalized Model Agreement as approved by the Commission.

Meticulous compliance of these guidelines/instructions must be ensured.

This issues with the approval of competent authority.

DA/As above


Dy. CE/Regulation,
for EIC/Commercial,
PSPCL, Patiala.

ਪਿੱਠ ਅੰਕਣ ਨੰ: **1128-1170/ Supply Code-2024 /Vol-1**

ਮਿਤੀ: **05.12.2024**

ਉਪਰੋਕਤ ਦਾ ਉਤਾਰਾ ਹੇਠ ਲਿਖਿਆਂ ਨੂੰ ਸੂਚਨਾ ਤੇ ਲੋੜੀਂਦੀ ਕਾਰਵਾਈ ਲਈ ਭੇਜਿਆ ਜਾਦਾ ਹੈ:

1. ਮਾਨਯੋਗ ਬਿਜਲੀ ਮੰਤਰੀ, ਕਮਰਾ ਨੰ. 24, 7th ਮੰਜਿਲ, ਪੰਜਾਬ ਸਿਵਲ ਸਕੱਤਰੇਤ- 1, ਚੰਡੀਗੜ੍ਹ।
2. ਚੇਅਰਮੈਨ-ਕਮ-ਮਨੇਜਿੰਗ ਡਾਇਰੈਕਟਰ, ਪੰ:ਰਾ:ਪਾ:ਕਾ:ਲਿਮ., ਪਟਿਆਲਾ।
3. ਸਾਰੇ ਨਿਰਦੇਸ਼ਕ, ਪੰ:ਰਾ:ਪਾ:ਕਾ:ਲਿਮ., ਪਟਿਆਲਾ।
4. ਵਿੱਤ ਕਮਿਸ਼ਨਰ/ ਫਾਇਨੈਂਸ ਟੂ ਗੌਰਮਿੰਟ ਪੰਜਾਬ ਐਕਸ-ਆਫਿਸੋ ਸੈਂਬਰ, ਪੰ:ਰਾ:ਪਾ:ਕਾ:ਲਿਮ., ਪਟਿਆਲਾ।
5. ਸਕੱਤਰ/ਬਿਜਲੀ ਵਿਭਾਗ, ਪੰਜਾਬ ਸਰਕਾਰ, ਚੰਡੀਗੜ੍ਹ।
6. ਸਕੱਤਰ/ਪੰਜਾਬ ਸਰਕਾਰ/ਇੰਡ: ਅਤੇ ਕਾਮਰਸ ਵਿਭਾਗ, ਪੰਜਾਬ ਸਰਕਾਰ, ਚੰਡੀਗੜ੍ਹ।
7. ਸਕੱਤਰ/ਪੰਜਾਬ ਰਾਜ ਬਿਜਲੀ ਰੈਗੂਲੇਟਰੀ ਕਮਿਸ਼ਨ, ਸਾਇਟ ਨੰ: 03, ਸੈਕਟਰ-18ਏ, ਮੱਧ ਮਾਰਗ ਚੰਡੀਗੜ੍ਹ।
8. ਪ੍ਰੈਜੀਡੈਂਟ, ਸਟੇਟ ਡਿਸਟ੍ਰਿਬਿਊਟ ਰਿਡਰੈਸਲ ਕਮਿਸ਼ਨ (ਪੰਜਾਬ) ਐਸ.ਸੀ.ਓ ਨੰ: 3009-10, ਸੈਕਟਰ-22, ਚੰਡੀਗੜ੍ਹ।
9. ਮੁੱਖ ਇੰਜੀਨੀਅਰ/ ਚੇਅਰਮੈਨ(ਫੋਰਮ), 220 ਕੇ.ਵੀ ਸਬ-ਸਟੇਸ਼ਨ, ਫਿਰੋਜ਼ਪੁਰ ਰੋਡ, ਸਾਹਮਣੇ ਵੇਰਕਾ ਮਿਲਕ ਪਲਾਂਟ, ਲੁਧਿਆਣਾ।
10. Ombudsman, Electricity Punjab 66 KV Grid Sub Station, Plot No. A-2, Industrial Area, Phase 1, SAS Nagar (Mohali) -160055.
11. ਨਿੱਜੀ ਸਕੱਤਰ ਟੂ ਬਿਜਲੀ ਮੰਤਰੀ, ਪੰਜਾਬ ਸਿਵਲ ਸਕੱਤਰੇਤ, ਪੰਜਾਬ, ਸਰਕਾਰ, ਚੰਡੀਗੜ੍ਹ।
12. ਚੀਫ-ਕੋ-ਆਰਡੀਨੇਟਰ, ਉਦਯੋਗ ਸਹਾਇਕ ਡਾਇਰੈਕਟਰ ਆਫ ਇੰਡੀਸਟਰੀਜ਼ ਪੰਜਾਬ ਸੈਕਟਰ-17, ਚੰਡੀਗੜ੍ਹ।
13. ਮੁੱਖ ਬਿਜਲੀ ਇੰਸਪੈਕਟਰ, ਪੰਜਾਬ ਸਰਕਾਰ, ਪਟਿਆਲਾ।
14. Finance Advisor, PSPCL, Patiala.
15. Chief Auditor, PSPCL, Patiala.
16. CE/ARR &TR, PSPCL, Patiala.
17. CE/PP&R, PSPCL, Patiala.
18. CE/IT, PSPCL, Patiala.
19. Dy.CE, Billing, PSPCL, Patiala.
20. ਉੱਪ ਮੁੱਖ ਇੰਜ: /ਸੇਲਜ਼-1, ਉੱਪ ਮੁੱਖ ਇੰਜ: /ਸੇਲਜ਼-2 ਪੰ:ਰਾ:ਪਾ:ਕਾ:ਲਿਮ. ਪਟਿਆਲਾ।
21. All Addl.SEs/Sr.Xens/AEEs/Sales under PSPCL / Commercial Organization.
22. CAO/TR (Finance), PSPCL, Patiala.


Sr. Xen/ Nodal Officer-2
for Dy. CE/ Regulation,
PSPCL, Patiala

Annexure-1

For planning the LD system, the following norms for assessment of estimated connected load of colonies/complexes shall be followed :-

Sr. no.	Name of category	Load (kW)
a)	(Residential plots-Area Based)	
i.	Up to 100 (Sq. Yards)	5
ii.	Above 100 to 200 (Sq. Yards)	8
iii.	Above 200 to 250 (Sq. Yards)	10
iv.	Above 250 to 350 (Sq. Yards)	12
v.	Above 350 to 500 (Sq. Yards)	20
vi.	Above 500 to 1000 (Sq. Yards)	30
vii.	Above 1000 to 2000 (Sq. Yards)	40
viii.	Above 2000 (Sq. Yards)	50
b)	(Residential flats-Covered area based))	
i.	upto 350 sq. ft	4
ii.	Above 350 to 600 sq. ft	5
iii.	Above 600 to 900 sq. ft	7
iv.	Above 900 to 1200 sq. ft	8
v.	Above 1200 to 1600 sq. ft	10
vi.	Above 1600 to 1900 sq. ft	12
vii.	Above 1900 to 2200 sq. ft	13
viii.	Above 2200 to 2600 sq. ft	15
ix.	Above 2600 to 3000 sq. ft	17
x.	Above 3000 to 3500 sq. ft	20
xi.	Above 3500 to 4000 sq. ft	25
xii.	Above 4000 to 4500 sq. ft	30
xiii.	Above 4500 to 5000 sq. ft	35
xiv.	Above 5000 sq. ft	40
c)	Group Housing (area based in case detailed layout plan is not available)	37 Watt/Sq. yard
d)	Sites for Hotels and Malls (area based, in case detailed layout plan is not available)	290 Watt/Sq yard
e)	Sites for Hotels and Malls (covered area based if layout plan based on Punjab Govt. norms & FAR etc.)	175 Watt/Sq. yard
f)	Shops /Showrooms/office space in colonies or complexes (upto 50 Sq. yards)	10 kW/Shop/ Floor

g)	Shops /Showrooms/office space in colonies or complexes (above 50 Sq. yards) (Area based, in case detailed layout plan is not available OR covered area based if layout plan as per Pb. Govt. norms & FAR etc.)	175 Watt/Sq. yard/Shop/Floor
h)	plot(s) for dispensary, school, hospital etc. including other common services	35 Watts per sq. yard
i)	Electric Vehicle charging station(s)	As per actual
Note: Forty percentages (40%) of the total residential load of plots/flats and fiftypercentages (50%) of the total commercial load of commercial complexes/Malls as calculated above shall be taken as colony load. The load calculated above shall be converted in kVA by using a power factor of 0.95.		
j)	Loading Norms For Industrial Complex/Park/Estate & IT Park	
Sr.no.	Plot Size in Sq. Yards	Norm in kW
i.	Upto 250 Sq. Yards	15 kW
ii.	Above 250 Sq. Yards upto 1000 Sq.Yards	15 kW plus 50 watts/sq yard for additional plot area above 250 sq yard
iii.	Above 1000 Sq. Yards and upto 20000Sq. Yards	55 kW plus 40 watts/sq yard for additional plot area above 1000 sq yard
iv.	Above 20000 Sq. Yards and upto 40000 Sq. Yards	1000 kW plus 35 watts/sq yard for additional plot area above 20000 sq yard
v.	Above 40,000 Sq. Yards	2000 kW plus 30 watts/sq yard for additional plot area above 40000 sq yard
NOTE: The demand factor for industrial complex/IT park has been taken in to account while fixing above norms for calculating the load so no separate demand factor shall be used to calculate estimated load. The load calculated above shall be converted in kVA by using a power factor of 0.95.		

Note- The above loading norms shall be applicable for calculating estimated load of the colony/complex where NOC is issued by the PSPCL on or after the date of commencement Supply Code-2024 i.e. on or after 14.11.2024.

CENTRAL ELECTRICITY AUTHORITY

NOTIFICATION

New Delhi, the 8th June, 2023

No. CEA-PS-16/1/2021-CEI Division.—Whereas the draft of the Central Electricity Authority (Measures relating to Safety and Electric Supply) Regulations, 2022 was published in six newspaper dailies, as required by sub-section (3) of section 177 of the Electricity Act, 2003 (36 of 2003) read with sub-rule (2) of rule 3 of the Electricity (Procedure for Previous Publication) Rules, 2005 for inviting objections and suggestions from all persons likely to be affected thereby, before the expiry of the period of forty-five days, from the date on which the copies of the newspaper containing the said draft regulations were made available to the public;

And whereas copies of the said newspapers containing the public notices and the said draft regulations on the website of the Central Electricity Authority were made available to the public on 14th June, 2022;

And whereas the objections and suggestions received from the public on the said draft regulations were considered by the Central Electricity Authority;

Now, therefore, in exercise of the powers conferred by clause (b) of sub-section (2) of section 177 and read with section 53 of the Electricity Act, 2003, and in suppression of the Central Electricity Authority (Measures relating to Safety and Electric Supply) Regulations, 2010, except as respects things done or omitted to be done before such suppressions, the Central Electricity Authority hereby makes the following regulations, namely:—

Chapter I

Preliminary

1. Short title and Commencement.— (1) These regulations may be called the Central Electricity Authority (Measures relating to Safety and Electric Supply) Regulations, 2023.

(2) These regulations shall come into force on the date of publication in the Official Gazette.

(3) **Scope and extent of application.**— These regulations shall be applicable to electrical installation including electrical plant and electric line, and the person engaged in the generation or transmission or distribution or trading or supply or use of electricity.

2. Definitions.— (1) In these regulations, unless the context otherwise requires,

- (a) “Act” means the Electricity Act, 2003 (36 of 2003);
- (b) “accessible” means within physical reach without the use of any appliance or special effort;
- (c) “aerial bunched cable” means polyethylene or cross linked polyethylene insulated cable having three or four cores with aluminium conductors twisted over a central bare or insulated aluminium alloy or steel messenger wire;
- (d) “apparatus” means electrical apparatus and includes all machines, fittings, accessories and appliances in which conductors are used;
- (e) “bare” means not covered with insulating materials;
- (f) “bonding conductor” means the inter connecting conductors for the purpose of equipotential bonding with the main earth;
- (g) “cable” means a length of insulated single conductor, solid or stranded, or two or more such conductors each provided with its own insulation, which are laid up together;
- (h) “chartered electrical safety engineer” means a person authorised by the Appropriate Government as referred in regulation 6;
- (i) “circuit” means an arrangement of conductor or conductors for conveying electricity and forming a system or a branch of a system and protected at the origin;
- (j) “circuit breaker” means a mechanical switching device, capable of making, carrying and breaking currents under normal circuit conditions and also making, carrying for a specified duration and breaking currents under specified abnormal circuit condition;
- (k) “concentric cable” means a composite cable comprising an inner conductor which is insulated and one or more outer conductors which are insulated from one another and are disposed over the insulation of, and more or less around, the inner conductor;
- (l) “conductor” means any wire, cable, bar, tube, rail or plate used for conducting electricity;

exceeding 30 milliampere shall be used:

Provided further that such protective device shall not be required for supply lines having protective devices which are effectively bonded to the neutral of supply transformers and conforming to regulation 76.

Chapter VI

Safety provisions for electrical installations and apparatus of voltage exceeding 650 V

45. **Approval by the Electrical Inspector and self-certification.** — (1) (a) Every electrical installation of notified voltage and below shall be inspected, tested and self-certified by the owner or supplier or consumer, as the case may be, of the installation before commencement of supply or recommencement after shutdown for six months or more for ensuring observance of safety measures specified under these regulations and such owner or supplier or consumer, as the case may be, shall submit the report of self-certification to the Electrical Inspector in the forms as provided under Schedule II of these regulations:

Provided that the self-certified electrical installation shall be considered fit for the commencement of supply or recommencement after shutdown for six months only after the report of self-certification is duly received by the office of Electrical Inspector and if not acknowledged by the Electrical Inspector within three working days, it shall be deemed to be received:

Provided further that the owner or supplier or consumer, as the case may be, has the option to get his installation inspected and tested by the Electrical Inspector of the Appropriate Government;

(b) Notwithstanding anything contained in clause (a), every electrical installation covered under section 54 of the Act including every electrical installation of railways shall be inspected and tested by the Electrical Inspector of the Appropriate Government as specified in sub-regulation (3).

(2) The voltage above which inspection and testing of electrical installations including installations of supplier or consumer to be carried out by the Electrical Inspector, shall be notified by the Appropriate Government;

(3) Every electrical installation of voltage above the notified voltage and all the apparatus of the generating units above the capacity specified under regulation 34, shall be inspected and tested by the Electrical Inspector before commencement of supply or recommencement after shutdown for six months or more for ensuring observance of safety measures specified under these regulations.

(4) Before making an application to the Electrical Inspector for permission to commence or recommence supply in installations above the notified voltage after an installation has been disconnected for six months or more, the supplier shall ensure that electric supply lines or apparatus of more than notified voltage belonging to him are placed in position, properly joined, and duly completed and examined, and the supply of electricity shall not be commenced by the supplier for installations of voltage needing inspection under these regulations unless the provisions of regulations 14 to 31, regulations 35 to 37, regulations 46 to 53 and regulations 57 to 80 have been complied with and the approval in writing of the Electrical Inspector has been obtained by him:

Provided that the supplier may energise the aforesaid electric supply lines or apparatus for the purpose of tests specified in regulation 48.

(5) The owner of any installations of voltage above the notified voltage shall, before making application to the Electrical Inspector for approval of his installation or additions thereto, test every circuit or additions thereto, other than an overhead line, and satisfy himself that they withstand the application of the testing voltage set out in regulation 48 and shall duly record the results of such tests and submit them to the Electrical Inspector:

Provided that the Electrical Inspector may direct such owner to carry out such tests, as he deems necessary or accept the certified tests of the manufacturer in respect of any particular apparatus in place of the tests required by this regulation.

(6) The owner of any installation who makes any addition or alteration to his installation shall not connect to the supply his apparatus or electric supply lines, comprising the said alterations or additions, unless and until such alteration or addition has been approved in writing by the Electrical Inspector or self-certified by the owner of the installation, as the case may be.

(7) In case of installations of mines and oil-fields, the electrical installations of voltage 650 V and above shall not be connected to supply, unless and until such installation work including alterations or additions or recommencement after shutdown for six months are approved in writing by the Electrical Inspector of Mines:

Provided that the electrical installations of voltage below 650 V in mines and oil-fields are to be self-certified by the owner or agent or manager of the mine before commencement of supply or recommencement after shutdown for six months or more in the manner specified in sub-regulation (1).

46. **Use of electricity at voltage exceeding 650 V.** — (1) The Electrical Inspector where the supply voltage exceeds

the notified voltage shall not authorise the supplier to commence supply or recommence the supply, where the supply has been discontinued for a period of six months or more, or the supplier, where the supply voltage is equal to or below the notified voltage but exceeds 650 V, shall not commence supply or recommence the supply where supply has been discontinued for a period of six months or more, to any consumer unless, —

(a) all conductors and apparatus situated on the premises of the consumer are so placed as to be inaccessible except to the designated person;

(b) the consumer has provided and agreed to maintain a separate building or a locked weather proof and fire proof enclosure of agreed design and location, to which the supplier at all times shall have access for the purpose of housing his apparatus and metering equipment, or where the provision for a separate building or enclosure is impracticable, the consumer has segregated the aforesaid apparatus of the supplier from any other part of his own apparatus:

Provided that the segregation shall be made by the fire walls, if the Electrical Inspector considers it to be necessary:

Provided further that in the case of an outdoor installation the consumer shall suitably segregate the aforesaid apparatus belonging to the supplier from his own;

(c) all pole type substations are constructed and maintained in accordance with regulation 52.

(2) Where electricity at voltage exceeding 650 V is supplied, converted, transformed or used, the owner shall, —

(i) maintain safety clearances for electrical apparatus as per relevant standards specification so that sufficient space is available for easy operation and maintenance without any hazard to the operating and maintenance personnel working near the equipment and for ensuring adequate ventilation:

Provided that in case of mines, the safety clearances for electrical apparatus to be as per relevant mining regulations;

(ii) not allow any encroachment below such installation:

Provided that where the Electrical Inspector comes across any such encroachment, he shall direct the owner to remove such encroachments;

(iii) maintain minimum safety working clearances specified in Schedule V for the bare conductors or live parts of any apparatus in outdoor substations excluding overhead lines of installations of voltage exceeding 650 V;

(iv) ensure that the live parts of all apparatus within the reach from any position in which a person may require to be, are suitably protected to prevent danger;

(v) ensure that where the transformer is used, suitable provision shall be made, either by connecting with earth, a point of the circuit at the lower voltage or otherwise, to guard against danger by reason of the said circuit becoming accidentally charged above its normal voltage by leakage from or contact with the circuit at the higher voltage;

(vi) not install a substation or a switching station with apparatus having more than 2000 litre of oil in the basement where proper oil draining arrangement cannot be provided;

(vii) undertake the following measures, where a substation or a switching station with oil-filled apparatus, such as transformer, static condenser, switchgear or oil circuit breaker having more than 2000 litre of oil is installed, whether indoor or outdoors, —

(a) the separation wall or fire barrier walls of thickness and dimensions as specified in the relevant standards shall be provided between the apparatuses and between the apparatus and adjacent building if building wall adjacent to the apparatuses is not rated for four hours fire withstand rating;

(b) provisions shall be made for suitable oil soakpit and where use of more than 9000 litre of oil in any one oil tank, receptacle or chamber is involved, provision shall be made for the draining away or removal of any oil which may leak or escape from the tank, receptacle or chamber containing the same, and special precautions shall be taken to prevent the spread of any fire resulting from the ignition of the oil from any cause and adequate provision shall be made for extinguishing any fire which may occur;

(c) spare oil shall not be stored in the vicinity of any oil filled equipment in any such substation or switching station; and

(d) all the transformers and switchgears shall be maintained in accordance with the maintenance schedules prepared in accordance with the relevant standards;

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- (viii) without prejudice to the above measures, undertake adequate fire detection and protection arrangement for quenching the fire of the apparatus;
- (ix) ensure that every transformer of 10 MVA or reactor of 10 MVAR and above rating shall be provided with automatic fire fighting system as per relevant standards;
- (x) undertake the following measures, where it is necessary to locate the substation, or switching station in the basement, namely: —
- (a) the transformer room be in the first basement at the periphery;
 - (b) the direct access to the transformer room be provided from outside and the surrounding walls of four hours fire withstand rating be provided as per relevant standards;
 - (c) the entrances to the transformer room be provided with fire resistant doors of two hour fire rating and the door shall always be kept closed and a notice of this effect be affixed on outer side of the door;
 - (d) a curb of a suitable height be provided at the entrance in order to prevent the flow of oil from a ruptured transformer into other parts of the basement;
 - (e) the cables to primary side and secondary side have sealing at all floors and wall opening of atleast two hours fire withstand rating; and
 - (f) Fire Retardant Low Smoke Low Halogen cable as per relevant standards be used;
- (xi) ensure that oil filled transformers installed indoors in other than residential or commercial buildings are placed on the ground floor or not below the first basement;
- (xii) ensure that only dry type transformer shall be used inside the residential and commercial buildings;
- (xiii) ensure that cable trenches inside the substations and switching stations containing cables are filled with sand, pebbles or similar non-inflammable materials or completely covered with non-inflammable slabs; and
- (xiv) ensure that unless the conditions are such that all the conductors and apparatus may be made dead at the same time for the purpose of cleaning or for other work, the said conductors and apparatus shall be so arranged that these may be made dead in sections, and that work on any such section may be carried on by the person designated or appointed or engaged or permitted under these regulations without danger.
- (3) The minimum clearances specified in Schedule VI shall be maintained for bare conductors or live parts of any high voltage direct current apparatus in outdoor substations, excluding high voltage direct current overhead lines.
- (4) There shall not be tapping of another transmission line from the main line for 66 kV and above class of lines:

Provided that during natural calamities, tapping may be allowed to ensure emergency power supply to affected areas till normalcy is restored.

47. Inter-locks and protection for use of electricity at voltage exceeding 650 V. — (1) The owner shall ensure the following, namely: —

- (i) isolators and the controlling circuit breakers shall be inter-locked so that the isolators cannot be operated unless the corresponding breaker is in open position;
 - (ii) isolators and the corresponding earthing switches shall be inter-locked so that no earthing switch can be closed unless and until the corresponding isolator is in open position;
 - (iii) where two or more supplies are not intended to be operated in parallel, the respective circuit breakers or linked switches controlling the supplies shall be inter-locked to prevent possibility of any inadvertent paralleling or backfeed;
 - (iv) when two or more transformers are operated in parallel, the system shall be so arranged as to trip the secondary breaker of the transformer in case the primary breaker of that transformer trips;
 - (v) all gates or doors which provide access to live parts of an installation shall be inter-locked in such a way that these cannot be opened unless the live parts are made dead and proper discharging and earthing of these parts shall be ensured before any person comes in close proximity of such parts; and
 - (vi) where two or more generators operate in parallel and neutral switching is adopted, inter-lock shall be provided to ensure that the generator breaker cannot be closed unless one of the neutrals is connected to the earthing system.
- 