



PUNJAB STATE POWER CORPORATION LIMITED

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Commercial Circular No. 45/2024

To

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

Memo No. **914-939** /Supply Code-2024 /Regulation-12

Dated: **12.11.2024**

Sub: Guidelines regarding supply of electricity to individual consumers in the Residential Colonies/Multi-Storey Residential Complexes, Commercial Complexes/Malls, IT Parks and Industrial Complexes/Parks/ Estates

- 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 shall 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) Regulation-12 of the Supply Code-2024 provides a comprehensive framework for processing of NOC applications. Regulation-12, specially deals with 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.

As per this regulation, the promoter/developer of a colony/complex shall provide complete Local Distribution (LD) system in the colony/complex at its cost as per the electric layout plan approved by PSPCL, as part of the NOC; and promoter shall bear all expenses for providing electrical connectivity to such colony/complex by PSPCL. The residents/occupiers of such colony/complex shall obtain individual connections directly from PSPCL. This subject matter was previously covered under Regulation 6.7 in the Supply Code-2014, which stands repealed with the commencement of the Supply Code-2024 w.e.f. 14.11.2024.

- C) The detailed guidelines for implementation of the provisions of Regulation-12 of the Supply Code-2024 are outlined below. In case of any inconsistencies, the provisions of the Supply Code-2024 shall prevail.

1. Documents for obtaining NOC from PSPCL

- i) For obtaining the NOC from PSPCL, the promoter shall submit through online single window the complete lay out plan of the electrical network i.e. Local Distribution(LD) system proposed to be erected in the colony/complex, based upon complete layout plan of

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the project approved by the competent licensing authority and other documents prescribed by PSPCL along with the processing fee (at present Rs. 20,000/-) within 45 days of the issue of licence.

- 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

- i) 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.

- ii) The earlier issued instructions vide memo no. 1140-44 dated 14.10.2022 and memo no. 1154-74 dated 14.10.2022 regarding loading norms are hereby superseded.

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. Further it has been decided by the competent authority that dry type Transformers as per approved rating of PSPCL upto 500 kVA shall be allowed to be installed inside residential and commercial buildings.

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Note:- It is explicitly intimated stated that dry-type distribution transformers (DTs) are strictly allowed only for installation inside residential and commercial buildings as per approved rating of PSPCL upto 500 kVA. Conversely, 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 approved rating of PSPCL upto 500 kVA permitted. 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) 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.
- iv) 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.
- v) The developer has the option to get the LD system approved from the PSPCL without providing last mile service cable up to metering point/MCB in conformity with the layout plan of the LD system and exclude its cost from the LD system. Accordingly, in case the service cable up to the metering point or up to the main switch, as the case may be, is not provided, the resident/occupier shall also deposit Service Connection Charges @ 20% of the approved rates for the relevant category in the latest Cost Data. In such cases, demand notice shall be issued by PSPCL.
- vi) **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.
 - b) The promoter 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 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) The System Loading Charges (SLC) as per this regulation shall be recovered where the connectivity charges including SLC is to be deposited by the promoter on or after the date of commencement of these regulations i.e. on or after 14.11.2024.

Applicability of this clause:- The recovery of 11KV Connectivity charges alongwith SLC as per Supply Code-2024 are also applicable for already issued NOCs as per Supply Code-2014 i.e. for NOCs which are within validity period and where the connectivity charges including SLC are yet to be deposited by the promoter upto 13.11.2024. Amendment to already issued NOCs should be issued by the respective competent authority on this account before getting these amounts deposited from the developer.

Illustration :-

Sr.no.	Description	Details
1	NOC Issuance Date and estimated load	01.08.2021 Estimated load 2200KVA (i.e less than 4000KVA)
2	Regulation Applicable at the time of Issuance of NOC	Regulation 6.7 of Supply Code-2014
3	Validity Period of NOC	5 years (01.08.2021 to 31.07.2026)
4	SLC Charges Mentioned in NOC	Not applicable under Supply Code-2014 at the time of issuance of NOC for estimated load less than 4000KVA
5	Current Date	14.11.2024
6	Current status of deposition of connectivity charges	No charges deposited against connectivity
7	Present applicable Regulation w.e.f 14.11.2024	Regulation 12 of Supply Code-2024
8	Impact of Supply Code-2024	Connectivity charges, including SLC, are recoverable as per the provisions of Supply Code-2024, even for NOCs issued under the previous Supply Code-2014
9	Action Required	Amendment to the previously issued NOC must be issued by the competent authority to incorporate the updated charges under Supply Code-2024
10	Connectivity Charges recoverable after Supply Code-2024	11 kV connectivity charges and System Loading Charges (SLC)
11	Effective Date for Recovering Updated Charges	On or after 14.11.2024

- e) 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.
- f) After the connectivity charges including SLC are deposited by the promoter with the PSPCL, the promoter shall not be liable to erect grid sub-station for NOCs to be issued on or after 14.11.2024.

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vii) **Provision of land for new 66 KV Grid Substation**

- a) In case the estimated load of the colony/complex exceeds 10 MVA as per NOC, the promoter 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. 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. However, in case provision regarding land for grid substation is already made in any NOC issued before 14.11.2024, same shall remain unchanged.
- 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.
- d) In case the cost of grid sub-station (including land) and HT/EHT line including bay/breaker or the connectivity charges including SLC have been deposited or have been undertaken to be deposited, by an authority under the State Act viz. PUDA /GMADA/GLADA etc., with the PSPCL; the connectivity charges including SLC for the same or the land for the grid sub-station shall not be recovered from the developer of such colony/complex.

4. **Bank Guarantee, event of default and Validity of NOC**

- i) The promoter 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 11kV supply and SLC for the full estimated load before issue of NOC by the PSPCL.
- ii) Only estimated cost of LD system of colony should be considered for calculating the value of 35% BG for projects falling under Mohali Master Plan & New Chandigarh Master Plan. Connectivity charges and SLC should not be considered for calculating the value of 35% BG for projects falling under Mohali Master Plan & New Chandigarh Master Plan, as GMADA has undertook to bear all charges regarding grid substations/lines and 11KV feeders as per GMADA undertaking dated 26.12.2014.
- Note- It must be ensured by the field office that letter regarding 35% BG should be issued within 10 days after approval of the all the documents submitted by the promoter against NOC application.**
- 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

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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- 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:- As per repealed Supply Code-2014(amended upto date), 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) Following clause regarding event of default shall be incorporated into the NOC to be issued after commencement of Supply Code-2024 i.e on or after 14.11.2024 :-

Event of default:- The Promoter is required to strictly adhere to all the terms and conditions as specified in the NOC issued by PSPCL. Any failure, breach, or non-compliance by the Promoter with the obligations outlined in the NOC may constitute an event of default. Such defaults include, but are not limited to, the following instances, which may result in PSPCL encashing the BG provided by the Promoter.

- a) Failure to adhere to or fulfill any specific conditions or requirements mentioned in the NOC issued by PSPCL.
- b) Failure to complete the erection of the internal local distribution (LD) system within the timelines committed by the Promoter and as incorporated in the NOC.
- c) If PSPCL identifies a breach or non-compliance with the NOC conditions and issues a formal notice, the Promoter must take corrective action within the specified or reasonable timeframe. Failure to adequately address such notices will be considered a default.
- d) If the Promoter's failure to comply with the NOC terms & conditions leads to legal actions by individual plot holder(s) within the project for securing electricity connections, this shall also constitute an event of default.
- e) Any unauthorized or inappropriate use of temporary electricity connections provided by

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PSPCL to the promoter for site/camp office or other related temporary needs or development works as the case may be before or after issue of NOC.

- f) If the Promoter extends the internal Load Distribution (LD) system of the colony to any area that is not part of the approved electrical layout plan or not part of the partially electrified LD system, as the case may be; it will be considered an event of default as such an extension constitutes unauthorized electricity distribution.
- g) Further, any other act, omission, or breach related to the terms and conditions of NOC or Supply Code-2024 shall constitute an event of default.
- h) Failure to extend 35% BG till the time complete compliance of NOC is made.
Note:- The competent authority for taking decision regarding encashment of BG in the event of default will be the NOC approving authority.
- 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 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 promoter only after the promoter 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 promoter 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

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temporary connection to the developer 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 promoter for carrying out development works and other temporary needs shall be released by the PSPCL as per the requirements of the promoter.

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 promoter. It shall be the responsibility of the load sanctioning authority to ensure that the temporary connection is not misused by the promoter.

c) Any increase of load/demand by the developer 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 promoter shall be disconnected if the load/demand exceeds the sanctioned load/demand by more than 10% twice in a year.

d) In case the promoter 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 promoter 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. Execution of work of the LD system from PSPCL

i) The promoter may deposit the estimated cost of LD system of the colony/complex as per NOC along with connectivity charges which includes 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 promoter deposit all the requisite charges at the prevailing rates.

ii) In this case the phase wise development of LD system may be carried out by the PSPCL as per requirement but any cost escalation over a period of time shall be borne by the PSPCL. The PSPCL shall be responsible to release individual connections within the time frame specified in Supply Code-2024.

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

i) The promoter 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 promoter and requests

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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 developer 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 :-
- a. The developer/authority 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/AAE 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 developer/authority.
 - e. Developer/authority 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 partial connectivity or during taking over of the LD system by PSPCL.
- Note :- Instructions for supervising the erection of the LD system already issued vide memo no. 610/14 dated 14.11.2018 shall be superseded with these instructions.
- iv) Distribution transformers (DTs) 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.
- v) The DTs may be procured by the developer from the PSPCL. However, the developer 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 developer 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 developer, it shall be deemed to have been inspected and approved by the PSPCL. The developer shall have the option either to install all the DTs procured from the vendors approved by the PSPCL after getting the same inspected as specified above or to hand over these DTs to PSPCL before seeking partial or complete connectivity and PSPCL shall install the DTs as per load growth of the colony/complex. Developer should intimate in writing regarding his intent to handover these DTs to the concerned AEE/AE (DS) at the time of deposit of Supervision charges alongwith schedule of works to be executed.
- 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.
- vii) **Return of 35% BG** :- After completion of the total LD system of the colony/complex as per NOC and inspection/clearance by the Chief Electrical Inspector to Govt. of Punjab, the PSPCL will take over the LD system which will be connected to its distribution system

after deposit of total connectivity charges including SLC by the promoter. After this, the 35% BG accepted by the PSPCL shall be returned to the promoter. The PSPCL shall thereafter maintain the LD system at its own cost including replacement of all damaged equipment. It shall be the responsibility of the PSPCL to release connections to the residents/ occupiers of the colony/complex as specified in Supply Code-2024.

Note:- 35% BG shall be released with the approval of concerned Dy. CE/SE (DS). This approval should be granted subject to fulfilment of all the terms and conditions of NOC alongwith recovery of all charges as mentioned in NOC duly pre-audited from AO/Field office.

viii) **Phase-wise development of LD system and request for partial load:-**

Supply Code-2024 provides that the phase wise development of LD system may be carried out by the promoter, as per his requirement. In case phase wise development of LD system is carried out by the promoter and he requests for energization of partial electrified LD system by availing partial load, the same shall be allowed provided the promoter adhere with following terms and conditions:-

- a) In case phase wise development of LD system (partial LD system) is carried out by the promoter and he requests for energization of partial electrified LD system by availing partial load, the same shall be allowed provided the promoter will submit a part layout plan for the specific area of the colony/complex where partial LD system is proposed to be erected. Additionally, the promoter shall also provide a load calculation sheet, estimated cost of the LD system and electrical layout plan corresponding to the partially electrified LD system to calculate and verify the partial load. These documentation will ensure that electricity connections are released only within the area covered by the partially completed LD system.
- b) Partial load shall be allowed provided the promoter deposit the cost of providing 11 kV supply for catering the full estimated load as per NOC and SLC corresponding to the partial load availed.
- c) Thereafter, the partially completed LD system, after clearance from Chief Electrical Inspector, shall be taken over by the PSPCL and energized to release electric connections to the residents as specified in Supply Code-2024. Such partially completed LD system taken over from the promoter shall be maintained by PSPCL at its cost including replacement of all damaged equipment.
- d) For the energisation of additional area of colony/complex, the SLC for the additional load shall be recoverable at the rates prevailing at the time of energization of additional area.
- e) The 35% BG furnished by the promoter at the time of NOC shall continue and 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 remaining charges including SLC for the total estimated load of the colony/complex.

Note- Concerned ASE/Xen/(DS) will ensure that electricity connection(s) are being released within the designated area of the partially completed LD system as approved by PSPCL.

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8. Release of individual connections in colonies/complexes

- i. The residents/occupiers shall apply for individual connections by submitting A&A form along with Security (consumption), Security (Meter) as per Schedule of General Charges in accordance with the provisions of Supply Code- 2024.
- ii. In case the service cable up to the metering point of individual premises or to the main switch of the consumer, if meter is located outside the consumers premises, has been provided by the promoter at its cost, the PSPCL shall not recover any Service Connection Charges from the individual consumers. In such case no demand notice shall be issued. However, in case the service cable up to the metering point or up to the main switch, as the case may be, is not provided, the resident/occupier shall also deposit Service Connection Charges @ 20% of the rates approved by the Commission for the relevant category in the Cost Data.
- iii. The applicant shall have the right to seek connection for load/demand as per his/her requirements irrespective of the loading norms considered for issuance of NOC.
- iv. The individual connection will be released at the voltage level specified in the Supply Code-2024.

9. Release of connection for common services and EV charging station

- i. In residential colony :- The connection for common services used primarily to provide basic amenities to the residents/occupiers viz lifts, school, dispensary, club, community hall, water supply & sewerage etc. in a residential colony shall be obtained by the promoter under Schedule of DS tariff. Other commercial establishments such as shops, multiplex etc. shall be covered under Schedule of NRS tariff.
- ii. In commercial complex/malls, IT parks, industrial park/estate:- In case of commercial complex/malls, IT parks, industrial park/estate, all the common services shall be covered under Schedule of NRS tariff. PSPCL shall provide separate connection for EV charging station on the request of the promoter/residents which shall be covered under relevant schedule of tariff.
- iii. Such connections shall be transferred to RWA or the local authority after the promoter hands over the colony/complex to such RWA/local authority.
- iv. In case a new connection for EV charging station and/or extension in load of other common services in a colony/complex, where NOC has already been issued or may be issued after commencement of Supply Code-2024, is requested subsequently by any promoter/RWA, the same shall be released by the PSPCL without insisting on revision of NOC up to a load of 5% of the estimated load of the colony/complex or 100 kW, whichever is less, by recovering normal service connection charges as per the provisions of Supply Code-2024.

D) 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 Regulations of Supply Code-2024.

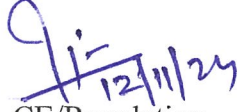
According to the Supply Code-2024, the validity of the NOC is directly interlinked to the validity of the license. Therefore, it must be ensured that the promoter holds a valid license, while processing the NOC application. However, in some cases where from project approval document, it is not possible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

E) 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 :-

Those cases where NOC has already been issued before 14.11.2024 under Supply Code-2014 and NOC is within validity period but connectivity charges including SLC has not been deposited by the developer before 14.11.2024, for such cases connectivity charges including SLC shall be recoverable as per Supply Code-2024. Accordingly, before recovering the connectivity charges including SLC from the developer on or after 14.11.2024, amendment in NOC should be issued by the respective competent authority as defined in memo no. 1354 dated 26.12.2022.

Meticulous compliance of these guidelines/instructions may please be ensured.

This issues with the approval of competent authority.
DA/As above



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

ਪਿੱਠ ਅੰਕਣ ਨੰ: **940-982** / Supply Code-2024 /Regulation-12

ਮਿਤੀ: **12.11.2024**

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

1. ਮਾਨਯੋਗ ਬਿਜਲੀ ਮੰਤਰੀ, ਕਮਰਾ ਨੰ. 24, 7th ਮੰਜਲ, ਪੰਜਾਬ ਸਿਵਲ ਸਕੱਤਰੇਤ- 1, ਚੰਡੀਗੜ੍ਹ।
2. ਚੇਅਰਮੈਨ-ਕਮ-ਮਨੈਜਿੰਗ 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.


 12/11/24
 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 beconverted 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;

- (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.