

PUNJAB STATE TRANSMISSION CORPORATION LTD.

Departmental Accounts Examination-2024 (2<sup>nd</sup> session)

Category- AE/Elec.

Paper-III

Roll No. ....

Commercial Accounting & Other Misc. Tech Knowledge

Time Allowed: 3 Hours

Max marks -100

Note- All the Questions are compulsory

Question No.1 :- Discuss the General Provisions for Open Access as per PSERC ( Terms & Conditions for intra-state Open Access) Regulations 2011?

(20)

ਸਵਾਲ ਨੰਬਰ 1 :- PSERC (ਇੰਟਰਾ-ਸਟੇਟ ਓਪਨ ਐਕਸੈਸ ਲਈ ਨਿਯਮ ਅਤੇ ਸ਼ਰਤਾਂ) ਰੈਗੂਲੇਸ਼ਨਜ਼ 2011 ਦੇ ਅਨੁਸਾਰ ਓਪਨ ਐਕਸੈਸ ਲਈ ਆਮ ਵਿਵਸਥਾਵਾਂ 'ਤੇ ਚਰਚਾ ਕਰੋ?

(20)

Question NO. 2 :- Explain the following as per PSERC MYT Regulations 2019:-

- (i) a) Segregation of ARR of General and Distribution Business.  
b) Segregation of ARR of Wheeling and Retail Supply Business  
c) Segregation of ARR of SLDC & Transmission Business.
- (ii) Multi Year Tariff Application.

(4X3+8=20)

ਸਵਾਲ ਨੰ. 2 :- PSERC MYT ਰੈਗੂਲੇਸ਼ਨਜ਼ 2019 ਦੇ ਅਨੁਸਾਰ ਹੇਠਾਂ ਲਿਖਿਆਂ ਦੀ ਵਿਆਖਿਆ ਕਰੋ:-

- (i) a) ਜਨਰਲ ਅਤੇ ਡਿਸਟ੍ਰੀਬਿਊਸ਼ਨ ਕਾਰੋਬਾਰ ਦੇ ARR ਨੂੰ ਵੱਖ-2 ਕਰਨਾ।  
b) ਵ੍ਹੀਲਿੰਗ ਅਤੇ ਰਿਟੇਲ ਸਪਲਾਈ ਕਾਰੋਬਾਰ ਦੇ ARR ਨੂੰ ਵੱਖ-2 ਕਰਨਾ  
c) SLDC ਅਤੇ ਟਰਾਂਸਮਿਸ਼ਨ ਕਾਰੋਬਾਰ ਦੇ ARR ਨੂੰ ਵੱਖ-2 ਕਰਨਾ।
- (ii) Multi Year ਟੈਰਿਫ ਅਰਜ਼ੀ।

(4X3+8=20)

Question No.3:- Specify the register to be maintained in case of minor works where initial works register (IWR) is not to be maintained, Also Explain the action to be taken by various officers & official in this regard.

(20)

ਸਵਾਲ ਨੰਬਰ 3 :- ਮਾਮੂਲੀ ਕੰਮਾਂ ਦੇ ਮਾਮਲੇ ਵਿੱਚ ਜਿੱਥੇ ਸ਼ੁਰੂਆਤੀ ਕੰਮ ਰਜਿਸਟਰ (IWR) ਦੀ ਵਰਤੋਂ ਨਹੀਂ ਕੀਤੀ ਜਾਂਦੀ ਤਾਂ, ਕਿਹੜੇ ਰਜਿਸਟਰ ਦੀ ਵਰਤੋਂ ਕੀਤੀ ਜਾਂਦੀ ਹੈ। ਇਸ ਸਬੰਧ ਵਿੱਚ ਵੱਖ-ਵੱਖ ਅਧਿਕਾਰੀਆਂ ਅਤੇ ਕਰਮਚਾਰੀਆਂ ਦੁਆਰਾ ਕੀਤੀ ਜਾਣ ਵਾਲੀ ਕਾਰਵਾਈ ਬਾਰੇ ਵੀ ਦੱਸੋ।

(20)

Question No 4 :- (a) Explain in detail procedure for filling appeal as per PSERC (Procedure for filling appeal before the Appellate Authority) Regulations 2005

(b) Describe the following ARR Elements into controllable/normative/uncontrollable.

1. Tax Rate
2. Heat Rate
3. GVC of Fuel
4. Distribution loss
5. Non-Tariff Income

(c) Specify the things to be contained in the business plan for Generation business.

(10+5+5)

ਸਵਾਲ ਨੰਬਰ 4 :- (ਏ) PSERC (ਅਪੀਲੇਟ ਅਥਾਰਟੀ ਅੱਗੇ ਅਪੀਲ ਕਰਨ ਦੀ ਪ੍ਰਕਿਰਿਆ) ਰੈਗੂਲੇਸ਼ਨਜ਼ 2005 ਦੇ ਅਨੁਸਾਰ ਅਪੀਲ ਕਰਨ ਦੀ ਪ੍ਰਕਿਰਿਆ ਬਾਰੇ ਵਿਸਥਾਰ ਵਿੱਚ ਦੱਸੋ

(ਬ) ਨਿਯੰਤਰਣਯੋਗ/ਨੋਨ-ਟੈਰਿਫ/ਅਨਿਯੰਤਰਿਤ ਵਿੱਚ ਹੇਠਾਂ ਦਿੱਤੇ ARR ਤੱਤਾਂ ਦਾ ਵਰਣਨ ਕਰੋ।

1. ਟੈਕਸ ਦਰ
2. ਗਰਮੀ ਦੀ ਦਰ
3. ਫਿਊਲ ਦਾ ਜੀ.ਵੀ.ਸੀ
4. ਡਿਸਟਰੀਬਿਊਸ਼ਨ ਦਾ ਨੁਕਸਾਨ
5. ਗੈਰ-ਟੈਰਿਫ ਆਮਦਨ

(c) ਜਨਰੇਸ਼ਨ ਕਾਰੋਬਾਰ ਲਈ ਕਾਰੋਬਾਰੀ ਯੋਜਨਾ ਵਿੱਚ ਸ਼ਾਮਲ ਕੀਤੀਆਂ ਜਾਣ ਵਾਲੀਆਂ ਚੀਜ਼ਾਂ ਬਾਰੇ ਲਿਖੋ।

Question No 5:-

(a) what is the Objective & scope of state Grid code?

(b) Explain in detail structure of state Grid Code?

(10+10)

ਸਵਾਲ ਨੰਬਰ 5:-

(ਏ) ਸਟੇਟ ਗਰਿੱਡ ਕੋਡ ਦਾ ਉਦੇਸ਼ ਅਤੇ ਦਾਇਰੇ ਕੀ ਹੈ?

(ਅ) ਸਟੇਟ ਗਰਿੱਡ ਕੋਡ ਦੀ ਬਣਤਰ ਸਬੰਧੀ ਡਿਟੇਲ ਵਿੱਚ ਵਿਆਖਿਆ ਕਰੋ?

(10+10)

**CHAPTER 8**

Q.no. 1

**GENERAL PROVISIONS FOR OPEN ACCESS**

**10. Eligibility for Open Access and conditions to be satisfied**

- 1) Subject to the provisions of these regulations, the licensees, generating companies, captive generating plants and consumers shall be eligible for open access to the intra-State transmission system of the State Transmission Utility or any transmission licensee on payment of transmission and other charges as may be determined by the Commission in accordance with Chapter 5 of these Regulations.
- 2) Subject to the provisions of these regulations, the licensees, generating stations, captive generating plants and consumers shall be eligible for open access to the distribution system of a distribution licensee on payment of the wheeling and other charges as may be determined by the Commission in accordance with Chapter 5 of these regulations.
- 3) Subject to the provisions of these Regulations, open access shall be permissible to a customer having demand of 1 MW and above (except generating plants), connected at 11 KV or above, on all feeders except urban pattern supply feeders, AP feeders and category - I feeders serving mixed loads of urban / industrial consumers. However, all the generating plants will be allowed open access for wheeling of power.

Provided that the customers connected to Category - II industrial feeders, with no agricultural load on the feeder, shall be allowed open access subject to the condition that they agree to rostering restrictions imposed by the utility on such feeders.

- 4) A person having been declared insolvent or bankrupt or having outstanding dues against him for more than two months billing of distribution/transmission licensee at the time of application shall not be eligible for open access.

Provided that, if the dispute regarding outstanding dues is pending with any Forum or Court and stay is granted by the competent authority, in that case the person shall be eligible for seeking open access.

## 11. Special Provisions for existing distribution licensees

The distribution licensees using intra-State transmission system and/or the distribution system in the State on the date of coming into force of these Regulations under an existing arrangement shall be entitled to continue to avail Open Access on such transmission and/or distribution system on the existing terms and conditions on payment of transmission charges and/or the wheeling charges and other applicable charges as may be determined by the Commission from time to time.

Provided that in case any distribution licensee was permitted/authorised by the State Government to supply energy to any person outside the area of supply under Section 27 of the Indian Electricity Act, 1910 (now repealed by the Act), then no surcharge shall be applicable till the current validity of such consent / authorisation.

The existing distribution licensees shall, within 30 days of coming into force of these Regulations, furnish to the State Transmission Utility and the State Load Despatch Centre details of use of their transmission system and/or the distribution system and the terms and conditions for such use.

## 12. Provisions for existing consumers and generating companies

### Open Access

- 1) The existing consumer or a generating company including existing sellers/CPPs other than the distribution licensees availing Open Access under the policy of the State Government or the agreement submit to the State Transmission Utility and the State Load Despatch Centre details of capacity utilized, point of injection, point of drawal, duration of availing Open Access, peak load, average load and such other information as the State Transmission Utility or the State Load Despatch Centre may require, within 30 days of coming into force of these Regulations.
- 2) The existing consumer or a generating company including existing sellers/CPPs under clause (1) above may continue to avail Open Access on the terms and conditions of the policy of the State Government or the agreement till the current validity of the policy / agreement. In cases where Open Access is currently being availed under sub-clause (1) above, but which are not covered by any policy directive by the State Government or an existing agreement, Open Access shall be provided on payment of

charges as per these Regulations.

- 3) Bhakra Beas Management Board, presently supplying electricity to person(s) in the State on behalf of its partner States as per the directions / instructions of Government of India, shall continue to supply on the existing terms and conditions and such person(s) would not be required to pay any surcharge or additional surcharge. However, the Bhakra Beas Management Board would supply the requisite details of such arrangement to the STU and SLDC within 30 days of coming into force of these Regulations.

**13. Criteria for granting long-term open access or medium-term open access or short term open access**

- 1) The long-term Open Access shall be allowed in accordance with the transmission system planning criteria and the distribution system planning criteria stipulated in the State Grid Code, or as specified by the Commission from time to time:
- 2) Medium-term open access shall be granted if the resultant power flow can be accommodated in the existing transmission system and the distribution system:
- 3) A customer shall be eligible for short term open access over the surplus capacity available on the intra-State transmission system/distribution system after use by the long term open access customers and the medium term open access customers, by virtue of
  - a) Inherent Design Margins;
  - b) Margins available due to variation in power flows; and
  - c) Margins available due to in-built spare transmission / distribution capacity created to cater to future load growth.

Provided that construction of a dedicated transmission line/distribution system shall not be construed as augmentation of the transmission system/distribution system for the purpose of this Regulation.

Q no. 2 (i) a

## 5. SEGREGATION OF ARR OF GENERATION AND DISTRIBUTION BUSINESSES

5.1. The Distribution Licensee also carrying out the generation business shall segregate the accounts of

the Company into generation business (separate for each of the generating plant) and distribution business. The Distribution Licensee, based on segregated accounts, shall submit separate ARR for generation and distribution businesses. The ARR for generation shall be used to determine

tariff and the ARR for distribution business to determine wheeling charges and retail tariffs.

5.2. Until accounts are segregated, Distribution Licensee shall prepare an Allocation Statement to apportion

costs and revenues to respective businesses.

5.3. The Allocation Statement shall be considered by the Commission only if it is certified by the Statutory

Auditor/Cost Auditor and approved by the Board of Directors of the Distribution Licensee, and it

shall be accompanied with an explanation of the methodology which shall be consistent over the Control Period.

## (b) 6. SEGREGATION OF ARR OF WHEELING AND RETAIL SUPPLY BUSINESS

6.1. The Distribution Licensee shall segregate the accounts of the distribution business in business and retail supply business. The ARR for wheeling business shall be used to determine Wheeling Charges and the ARR for retail supply business to determine Retail Supply Tariff. GOVT. GAZ. (EXTRA), MAY 30, 2019 (JYST 9, 1941 SAKA) 5386

6.2. Until accounts are segregated, the Allocation Statement shall be applicable as per Allocation Statement. However the Distribution Licensee could revise it based on actual data and prepare an Allocation Statement to apportion costs and revenues to respective businesses.

6.3. The Allocation Statement, certified by the Statutory Auditor/Cost Auditor and approved by the Board

of Directors of the Distribution Licensee, shall be accompanied with an explanation of the methodology

which shall be consistent over the Control Period.

## (c) 7. SEGREGATION OF ARR OF SLDC AND TRANSMISSION BUSINESS

4 Marks

7.1. The STU shall have separate accounts for SLDC and transmission business. The STU, based on segregated accounts, shall submit separate ARR for SLDC and transmission businesses. The ARR for SLDC shall be used to determine SLDC Charges and the ARR for transmission business shall be used to determine transmission charges.

7.2. Until accounts are segregated, STU shall prepare an Allocation Statement to apportion costs and revenues to respective businesses.

7.3. The Allocation Statement shall be considered by the Commission only if it is certified by the Statutory

Auditor/Cost Auditor and approved by the Board of Directors of the STU, and it shall be accompanied

with an explanation of the methodology which shall be consistent over the Control Period.

4 Marks

Amo. 2(ii)

## 10. MULTI YEAR TARIFF APPLICATION

10.1. The Applicant shall make an application for the Multi Year Tariff on or before 30th November of the

year preceding the first year of Control Period.

10.2. The Applicant shall submit the forecast of Aggregate Revenue Requirement for each year of the Control Period and tariff proposal for the first Year of the Control Period, in a manner as provided in

these Regulations and in formats specified by the Commission from time to time. The application

shall be accompanied by such fee payable, as may be specified by the Commission in the PSERC

(Fee) Regulations 2005 as amended from time to time.

Provided that the application shall also be accompanied by the true-up Petition based on the latest PUNJAB GOVT. GAZ. (EXTRA), MAY 30, 2019 (JYST 9, 1941 SAKA) 5392

available audited accounts and the Annual Performance Review for the current Year based on the

actual performance during the first six Months of the Year and estimates for the subsequent six

Months.

10.3. The Applicant shall develop the forecast of Aggregate Revenue Requirement using the assumptions

relating to the behaviour of individual variables that comprise the Aggregate Revenue Requirement

during each year of the Control Period, including inter-alia detailed category-wise sales and demand

projections, power procurement plan, trajectories of parameters specified in these Regulations and

Business Plan, in accordance with guidelines and formats, as may be specified by the Commission

from time to time.

10.4. The Distribution Licensee shall develop the forecast of Expected Revenue from existing and proposed

Tariff and Charges based on the following:

(a) Distribution Licensee's estimates of the quantum of electricity to be supplied to Consumers and

to be wheeled on behalf of distribution system users for the ensuing Financial Year within the

Control

Period;

(b) Prevailing tariff as on the date of making the application.



10.5. Based on the forecast of Aggregate Revenue Requirement for the first Year of the Control Period

and Expected Revenue from Tariff and Charges, the Distribution Licensee for the Distribution Wires

Business and Retail Supply Business, shall propose the tariff for the first Year of Control Period:

Provided that the tariff proposed by Distribution Licensee shall be in accordance with Section 62 of the Electricity Act, 2003 and these Regulations.

10.6. The Applicant shall provide full details supporting the forecast, including but not limited to details of past performance, proposed initiatives for achieving efficiency or productivity gains, technical

studies, contractual arrangements and/or secondary research, to enable the Commission to assess the reasonableness of the forecast.

10.7. The Applicant shall publish its application filed for Multi Year Tariff / Annual Revenue Requirements as required by Conduct of Business Regulations. The Applicant shall also display the application on its official website.

8 Marks

Q.no.3

### 17 Maintenance of Materials Estimate Control Register (MECR).

RESPONSIBLE	ACTION	TIMING
Sub Division/Field Unit	<ol style="list-style-type: none"><li>1. Where Initial Works Register (IWR) is not to be maintained i.e. in case of minor works maintain a material Estimate Control Register for each sanctioned estimate/work. This register will show at any point of time. The cumulative quantity and value of material received in respect of major material items and cumulative value of petty material items vis-a-vis sanctioned requirements. The register shall also indicate consumption and balance of material in hand both with regard to the quantity and value on last day of each month/financial year or on completion of work.</li><li>2. This Register shall be maintained by the sectional officer/junior Engineers and other authorised officials for all the minor works under capital/revenue accounts.</li></ol>	As and when new work starts
J.E. Works/S.D.	<p>A-Capital Works (Minor)</p> <ol style="list-style-type: none"><li>3. Maintain the Register both in respect of quantities and value. Show quantities in blue/black ink and value in red ink.</li><li>4. Enter estimated quantity and value of each article at the top in the columns provided in case of electrical works. In case of civil works, work out the estimated quantity and value of each item of material with reference to the quantities of items of works as per sanctioned estimates and as per formula given in the column Schedule of Rates or otherwise as approved by the competent authority (Where there is no such formula in the common schedule of rates).</li></ol>	As and when

RESPONSIBLE	ACTION	TIMING
AE/AEE	5. Sign the estimated quantity and value entered in the register in token of check.	As and when
JE/Works	6. Update the register on every receipt of material so as to show the material actually drawn for each material item against sanctioned estimate.	Immediately
	7. Enter the consumption of material in the register with reference to the entries recorded in the Electrical Measurement Book (Form CE-30) after the completion of electrical works. In case of civil works, work out the consumption of materials with reference to the formula given in common schedule of Rates or otherwise as approved by the competent authority as per measurement of items of work recorded in the Works measurements Book (Form CE-01).	After the completion of work
	8. Return unused material, if any, to store through Store Return Warrant (Form MAT-34) after completion of work and make an entry in the register as minus receipts.	-do-
	<u>B Annual Repairs and Maintenance works</u>	
JE/Works	9. Enter only total value of material as per estimate in the register in value column.	As and when
	10. Enter the consumption of materials in the register given reference to location (s) where materials are used.	
AE/AEE	11. Verify the consumption of principle items of materials such as conductor cable, whether proof, switchgear, cable boxes etc. in case of electrical works and cement sand, Bajri, wood, paints etc. in case of civil works and initial the entries with date.	



RESPONSIBLE

ACTION

TIMING

12. Adjust the unused materials, if any, at the close of the financial year as prescribed in the Material Accounting Manual-Subject code-56.

C-Special Estimate

13. The accounts of special estimates shall be maintained on the same lines as in case of Capital Works. The measurement of materials used on these works shall be recorded in the Electrical Measurement-Book (From CE-30) or works Measurement-Book (Forme CE-01) as the case may be.

D-General

14. No page should on any account be torn out of the register nor should any entry be erased or disfigured so as to be illegible. Any cutting made in the register should be attested by JE, AE/AEE incharge.
15. The monthly transactions of materials issued to works both Capital and Revenue Shall be posted in the register from each Store Requisition for materials drawn from stores and from each voucher for the materials purchased directly for the works.
16. The mterials returned to stores shall be shown as minus entry in the register.  
Note: Use of Stores Transfer Warrant for transfer of materials from one work to another works is strictly prohibited.
17. Net receipt of each month and progressive totals both in respect of quantities and value shall be worked out.
18. Every entry in the register shall be signed by the JE/SO incharge of work.

RESPONSIBLE	ACTION	TIMING
	19. The register shall be checked monthly by the SDC and signed by AE/AEE in token of check.	
	20. The register shall be checked by the Divl. Supdt./Accounts during annual inspection of the Sub Division. It shall be seen by the Divisional Officer that the register is properly maintained.	

20 marks

FORM TITLE	FORM NO
Material Estimate Control Register (MECR)	MAT-28
Works Measurement Book	CE-01
Electrical Measurement Book	CE-30
Store Return Warrant	MAT-34

Q no. 4(a)

### 3. Filing of appeal

- (1) Any person aggrieved by a final order made by an assessing officer under Section 126 of the Act, may, within 30 days of the order, file an appeal before the Appellate Authority.
  - (2) The appeal shall be made in the form specified in the Schedule to these Regulations.
  - (3) The Memorandum of Appeal shall be signed and verified in the manner specified in the Schedule to these Regulations.
  - (4) 1[No appeal against an order of assessment under Clause (1) shall be entertained unless an amount equal to half of the assessed amount is deposited in cash or by way of bank draft with the Licensee and documentary evidence of such deposit has been enclosed alongwith the appeal.]
  - (5) The appeal shall be accompanied by the fee of 0.5% of the assessed amount subject to minimum of Rs. 100.
  - (6) The fee shall be paid in such form as the Appellate Authority may specify. Appeal before Appellate Authority, Regulations
- PSERC (Procedure for filing Appeal before the Appellate Authority) Regulations, 2005. Page 122

### 4. Miscellaneous

- (1) Subject to the provisions of the Electricity Act, 2003 and these Regulations, the Commission may, from time to time, issue orders and practice directions in regard to the implementation of these Regulations and procedure to be followed on various matters, which the Commission has been empowered by these Regulations to direct and matters incidental or ancillary thereto.
- (2) If any difficulty arises in giving effect to any of the provisions of these Regulations, the Commission may, by general or special order, do or undertake or permit the Appellate Authority to do or undertake things not being inconsistent with the provisions of the Act which in the opinion of the Commission are necessary or expedient for removing the difficulty.
- (3) The Commission may, at any time, add, vary, alter, modify or amend any of the provisions of these Regulations.

10 marks

Q no. 4(b)

- |                      |    |                |
|----------------------|----|----------------|
| 1. Tax Rate          | -- | Uncontrollable |
| 2. Heat Rate         | -- | Normative      |
| 3. GVC of fuel       | -- | Uncontrollable |
| 4. Distribution Loss | -- | Controllable   |
| 5. Non-Tariff Income | -- | Uncontrollable |

1x5 = 5 Marks

Q no. 4(c)

The Business Plan for Generation Business shall contain among other things the following:

- (a) Capacity addition / reduction;
- (b) Availability forecasts;
- (c) Future performance targets;
- (d) Proposed efficiency improvement measures;
- (e) R&M of existing generation units/projects and any other new measures to be initiated for the Generation Business, e.g.; automation, IT initiatives etc.;
- (f) Capital Investment Plan based on the above;
- (g) Man Power Plan.

5 marks

Q no. 5(a)

## 1.2 Objectives

The State Grid Code governs the boundary between State Transmission Utility (STU) and Users as well as establishes guidelines for operation of facilities for those who are connected and will use the State Transmission System. It lays down both the information requirements and procedures governing the relationship between STU and Users. The principal objectives of the State Grid Code are:

- o To provide clarity and certainty to the STU, State Generating Stations (SGS) other than inter-state generating stations, including Independent power plants (IPPs) /Captive Power Plants (CPPs) within Punjab, Distribution Licensees, Transmission licensees and Open Access Consumers by stating their respective roles, responsibilities and obligations with respect to the operation of the State Transmission System.
- o To improve the grid stability and set minimum standards of system performance.
- o To define requirement for new entrants i.e. future new generating companies, licensees, CPPs and consumers.
- o To document the common knowledge or normal practice in writing for ease of reference and help in compliance.
- o To lay down in consultation with generators, performance characteristics of generating plants.
- o To improve co-operation by providing a mechanism for clear and consistent disclosure of all information.
- o To provide a level playing field.
- o To indicate how generation and load is to be scheduled and despatched.
- o To actually enforce what is verbally agreed. Page 21 of 118

## 1.3 Scope

1.3.1 State Grid Code defines the boundary between STU and Users and



establishes the procedures for operation of facilities connected to the State Grid.

1.3.2 All Users that connect with and/or utilize the State Transmission System are required to abide by the principles and procedures as laid down in the State Grid Code in so far as they apply to that User.

1.3.3 The State Grid Code shall be complied with by SLDC as the apex body to ensure integrated operation of power system in the state, STU in its capacity as holder of the Transmission Licence, transmission licensee, State Generating Station (SGS), Distribution Licensees including EHV consumers and Open Access Consumers connected directly with STS in the course of generation, transmission, supply and utilisation of electricity.

1.3.4 The State Grid Code shall come into effect from the date of publication in the official gazette of Government of Punjab.

10 Marks

Qno. 5(b)

#### 1.4 Structure of State Grid Code

The State Grid Code comprises of following parts:

##### Part I- General

This section includes :

- o Management: The State Grid Code is a live document and has to be periodically reviewed by a competent panel as and when required in the light of experience gained and difficulties faced from time to time. This section formulates the procedures for the same. It also defines the roles and functions of various agencies to ensure that all other sections of the State Grid Code work together in the management of the State Grid Code.
- o Review Procedures: specify a procedure for review of State Grid Code to cater to inadvertent omissions and any modifications needed from time to time.

##### Part II- Planning Code

Planning Code includes sections on:

- o System Planning: specifies the procedures to be applied by STU in the planning and development of the State Transmission System and by other Users connected or seeking Connection to the State Transmission System.
- o Procedures: specify procedures to be followed by STU in the development of the State Transmission System in the long term taking into account the requirements for new connection of generation and demand.
- o Connection Conditions: specifies the technical requirements and standards to be complied with by STU and other Users connected or seeking Connection to the State Transmission System.

##### Part III- Operating Code

Operating Code specifies the conditions under which STU and transmission

licensee shall operate the State Transmission System, the Generating Companies shall operate their Power Stations and the Distribution Licensees shall operate their Distribution Systems in so far as necessary to protect the security and quality of supply and safe operation of the State Transmission System under both normal and abnormal operating conditions. This codePage 22 of 118 includes sections on:-

- o System Security: describes the general security aspects to be followed by generating companies, STU and all other Users of the State Grid.
- o Operational Planning: describes the process by which SLDC carries estimation of the demand in its control area and methodology for demand control for ensuring grid security.
- o Outage Planning: describes the process by which SLDC shall carry out the planning of outage in the STS in a coordinated and optimal manner.
- o Contingency Planning: describe the steps to be followed by all Users for recovery in case of total or partial blackouts of STS
- o Inter-User Boundary Safety: describes the procedure to be followed for maintaining safe working practices associated with inter-user boundary operation.
- o Event/Accident Reporting: describes the reporting procedure of reportable events in the STS

10 Marks