

ANDHRA PRADESH POWER GENERATION CORPORATION LIMITED
A B S T R A C T

Circular Memo No.CGM(Adm,IS&ERP)/DS(Adm)/AS(Adm)/Dy.EE(Adm-I)/F.No.05/2022, Dt. 12.09.2022

Sub: Estt- APGENCO – E.S- Assistant Executive Chemist- Appointment by Transfer method of Recruitment - Guidelines to process with in-service candidates, as one-time Measure-Orders-Issued.

Ref: 1. G.O.O.108/CGM(Adm,IS&ERP)/2022, Dated: 22.08.2022
2. Selection Committee report dated 30.08.2022

After careful consideration, the following Guidelines for the process of appointment by transfer with in-service employees to the post of Assistant Executive Chemist, as one-time measure, are hereby issued.

A. SCREENING TEST:

The Screening test will consist of the following;

a) Written Test:

- (i) Test Consists of 100 questions (Objective type) carrying 1 mark for each question.
- Total Marks secured in written test are restricted to 80 marks.
- (ii) Duration of test will be 2 (Two) hours.

The Minimum qualifying marks in the written test is 35 for General Candidates, 33 for BCs and 30 for SC/ST/PH candidates.

b) Service Weightage: -

Service Weightage Marks for the in-service employees working in Water Treatment Plant (WTP) areas: -

Up to Five Years' Experience -Nil Marks

More than Five Years Experience-2 Marks will be awarded for each completed year, limited to maximum 20 Marks.

B. SYLLABUS: -

The Syllabus for written test is as follows;

(i) **Inorganic Reaction Mechanism:** -

Acid Hydrolysis-Base Hydrolysis reaction, Strong electrolytes, weak electrolytes, Nature of Salts, Salt hydrolysis, Common ion effect, Solubility product of water.

(ii) **Coordination Chemistry:** -

Metal-ligand Bonding-Valence Bond-Crystal field and Molecular orbital theories of coordination compounds.

(iii) **Thermodynamics:** -

First law of thermodynamics and its applications, Second law and its applications, Definition of Free energy.

(iv) **Electrochemistry:** -

Theory of Strong electrolytes, Electrochemical cells, Faradays laws of electrolysis, Electromotive Force and its importance.

(v) **Water Chemistry: -**

Physical and Chemical analysis of Raw water, Clarified water, DM water, Colling Tower Water analysis, Biological analysis of water, Dissolved Oxygen, Biological Oxygen Demand, Chemical Oxygen Demand, Boiler Water Chemistry of subcritical and super critical boilers, Ultra filtration, Condensate Polishing unit advantages, Reverse Osmosis and applications, Demineralisation process, Resins used in Demineralisation process.

(vi) **Coal analysis and Oil analysis: -**

Proximate analysis and Ultimate analysis of water, Gross calorific value of coal, Hard Groove index of Coal, heat rate, Flue gas analysis, Pulverised Coal analysis, Chemical analysis of Oils, Grades of coal based as GCV.

(vii) **Environmental Chemistry: -**

Analysis of Ambient air for SPM, Sulphur oxides, Nitrogen oxides, Effluent water analysis, Flue gas Desulphurisation, Limits for SPM, SOX and NOX in Power plant, Greenhouse effect.

C. **SELECTION PROCEDURE: -**

Zone-wise merit list drawn after screening test shall be the basis for Selection. The candidates who qualify in the screening test will be considered for posting in the respective zone only. The selected candidates shall undergo training at Training Institute/ Dr.NTTPS for two weeks on the relevant subject.

D. **SENIORITY: -**

The fixing of seniority shall be based on the merit order i.e in the order of marks secured in screening test.

E. **VACANCIES: -**

Filling up of the vacancies will be subjected to the requirement.

**B. SREEDHAR
MANAGING DIRECTOR**

To

The Chief General Manager (Adm, IS&ERP)/APGENCO

Copy to:

PS to Managing Director/ APGENCO/VS/Vijayawada

AO to Director (Finance & Commercial) /APGENCO/VS/Vijayawada

DEE/Tech. to Director(Thermal)/ APGENCO/VS/Vijayawada

DEE/Tech. to Director(Hydel)/APGENCO/VS/Vijayawada

DEE/Tech. to Director (Coal & Logistics)/APGENCO/VS/Vijayawada

PO to Director (HR&IR)/APGENCO/VS/Vijayawada

PA to CGM (Adm, IS&ERP)/ APGENCO/VS/Vijayawada

All Chief Engineers/APGENCO|| All FA&CCAs/APGENCO

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Deputy Executive Engineer (Adm-I)