



मध्यनेपाल नगरपालिका



नगर कार्यपालिकाको कार्यालय

भोर्लेटार, लमजुङ
गण्डकी प्रदेश, नेपाल



पत्र सं: ०८०/८१
च. सं.

फोन सं ०६६-४१०२५२
मिति: २०८०/०९/२६

सेवा करारमा लिने सम्बन्धी सूचना ।

सूचना प्रकाशित मिति: २०८०/०९/२६

यस नगरपालिका अन्तर्गतका रोजगार सेवा केन्द्र अन्तर्गत तपसिल बमोजिमका पदमा सेवा करारमा लिनु पर्ने भएको हुँदा योग्यता पुगेका नेपाली नागरिकहरूबाट यो सूचना प्रकाशित भएको मितिले १५ (पन्ध्र) दिनभित्र कार्यालय समयसम्म यस कार्यालयमा आइपुग्ने गरी दरखास्त आह्वान गरिएको छ।

तपसिल:

विज्ञापन सं. ०६/०८०/८१

क्र.सं.	पद	सेवा	तह	आवश्यक संख्या	योग्यता
१.	प्राविधिक सहायक	रोजगार	५	१	-मान्यता प्राप्त शिक्षण संस्थाबाट सिभिल ईन्जिनियरिङमा प्रविणता प्रमाण पत्र तह वा ओभरसियर वा डिप्लोमा तह उत्तीर्ण भएको -कम्तीमा ३ महिने तालिम लिई आधारभूत कम्प्युटर सीप भएको -पूर्वधारको निर्माण र मर्मतका लागि आयोजनाको लागत अनुमान, सुपरीवेक्षण र अन्तिम लागत विवरण तयार गर्न सक्ने, आयोजनाको लक्ष्य र परिणाम हासिल गर्न टोलिमा काम गरेकव अनुभव पारस्परिक सम्बन्ध सम्बन्धी सीप सहित कम्तीमा ६ महिनाको अनुभव भएकोलाई गाह्यता दिईने छ।

अन्य योग्यता: १८ वर्ष उमेर पुरा भई ४५ वर्ष ननाघेको ।

दरखास्त दिने स्थान: मध्यनेपाल नगरपालिकाको प्रशासन शाखा ।

दरखास्त फाराम: मध्यनेपाल नगरपालिकामा करारमा प्राविधिक कर्मचारी व्यवस्थापन गर्ने सम्बन्धी कार्यविधि, २०७५ को अनुसूची ३ को ढाँचा अनुसार ।

दरखास्त दस्तुर: रु ५००

छनौटको किसिम: प्रारम्भिक योग्यताक्रमको सूची प्रकाशन र लिखित परिक्षा र प्रयोगात्मक परीक्षा ।

परीक्षा मिति: दरखास्त दिने अन्तिम मितिको भोलिपल्ट तोकिने छ ।

सेवा सुविधा: करार सम्झौता बमोजिम ।

२०८०/०९/२६

शेषकान्त पौडेल
प्रमुख प्रशासकीय अधिकृत

अनुसूची -५

(दफा ७(२) सँग सम्बन्धित)

प्राविधिक सहायकको पाठ्यक्रम

खण्ड- १ सेवा सम्बन्धी

क) प्रशासन सम्बन्धी -१० अंक

समय: १ घण्टा

१. प्रधानमन्त्री रोजगार कार्यक्रम संचालन निर्देशिका, २०७५, कामका लागि पारिश्रमिकमा आधारित सामूदायिक आयोजना सञ्चालन तथा व्यवस्थापन कार्यविधि, २०७६ र युवा रोजगारीका लागि रुपान्तरण पहल आयोजना (संचालन तथा व्यवस्थापन) कार्यविधि, २०७६,
२. कामका लागि पारिश्रमिक (Cash for Work) को अवधारणा,
३. सामाजिक परिचालन, सार्वजनिक सुनुवाई, सामाजिक लेखापरीक्षण तथा गुनासो व्यवस्थापन ,
४. स्थानीय तहको बजेट तर्जुमा प्रकृया, खर्च व्यवस्थापन र लेखा परीक्षण,
५. आचरण तथा अनुशासन र सुशासन।

ख) प्राविधिक कार्य सम्बन्धी परीक्षा- ४० अंक

1. Surveying

1.1 Levelling

1.1.1 Principles and methods of levelling

1.1.2 Levelling instruments and accessories

1.2 Plane Tabling

1.2.1 Equipments required

1.2.2 Methods of plane tabling

1.2.3 Two and three point problems

2. Construction Materials

2.1 Stone

2.1.1 Formation and availability of stones in Nepal

2.1.2 Methods of laying and construction with various stones

2.2 Cement

2.2.1 Different cements: Ingredients, properties and manufacture

2.2.2 Storage and transport

- 2.2.3 Admixtures
- 2.3 Clay and Clay Products
 - 2.3.1 Brick: type, manufacture, laying, bonds
- 2.4 Paints and Varnishes: Type and selection; preparation techniques and use
- 2.5 Bitumen: Type, selection and use

3. Mechanics of Materials and Structures

- 3.1 Mechanics of Materials
 - 3.1.1 Internal effects of loading
 - 3.1.2 Ultimate strength and working stress of materials
- 3.2 Mechanics of Beams
 - 3.2.1 Relation between shear force and bending moment
 - 3.2.2 Shear and bending moment diagrams for statically determinate beams under various types of loading
- 3.3 Simple Strut Theory

4. Hydraulics

- 4.1 General
 - 4.1.1 Properties of fluid: mass, weight, specific weight, density, specific volume, specific gravity, viscosity
 - 4.1.2 Pressure and Pascal's law
- 4.2 Hydro-Kinematics and Hydro-Dynamics
 - 4.2.1 Energy of flowing liquid: elevation energy, Kinetic energy, potential energy, internal energy
- 4.3 Measurement of Discharge
 - 4.3.1 Weirs and notches
 - 4.3.2 Discharge formulas
- 5.4 Flows: Characteristics of pipe flow and open channel flow

5. Soil Mechanics

- 5.1 General
 - 5.1.1 Soil types and classification
 - 5.1.2 Three phase system of soil
 - 5.1.3 Unit Weight of soil mass: bulk density, saturated density, submerged density and dry density

5.1.4 Interrelationship between specific gravity, void ratio, porosity, degree of saturation, percentage of air voids air content and density index

5.2 Soil Water Relation

5.2.1 Terzaghi's principle of effective stress

5.2.2 Darcy's law

5.2.3 Factors affecting permeability

5.3 Compaction of soil

5.3.1 Factors affecting soil compaction

5.3.2 Optimum moisture content

5.3.3 Relation between dry density and moisture content

5.4 Shear Strength of Soils

5.4.1 Mohr-Coulomb failure theory

5.4.2 Cohesion and angle of internal friction

5.5 Earth Pressures

5.5.1 Active and passive earth pressures

5.5.2 Lateral earth pressure theory

5.5.3 Rankine's earth pressure theory

6. Structures

6.1 R.C. Sections in Bending

6.1.1 Under reinforced, over reinforced and balanced sections

6.1.2 Analysis of single and double reinforced rectangular section

6.2 Shear and Bond for R.C. Sections

6.2.1 Shear resistance of a R.C. section

6.2.2 Types of Shear reinforcement and their design

6.2.3 Determination of anchorage length

6.3 Design and Working System of R.C. Structures

6.4.1 Singly and doubly reinforced rectangular beams

6.4.2 Simple one-way and two-way slabs

6.4.3 Axially loaded short and long columns

7. Building Construction Technology

7.1 Foundations

7.1.1 Subsoil exploration

- 7.1.2 Type and suitability of different foundations: Shallow, deep
- 7.1.3 Shoring and dewatering
- 7.1.4 Design of simple brick or stone masonry foundations
- 7.2 Walls
- 7.2.1 Type and thickness of walls
- 7.2.2 Use of scaffolding

7.3 Damp Proofing

- 7.3.1 Source of Dampness
- 7.3.2 Remedial measures for damp proofing

7.4 Concrete Technology

- 7.4.1 Constituents of cement concrete
- 7.4.2 Grading of aggregates
- 7.4.3 Concrete mixes
- 7.4.4 Water cement ratio
- 7.4.5 Factors affecting strength of concrete
- 7.4.6 Form work
- 7.4.7 Curing

7.5 Wood work

- 7.5.1 Frame and shutters of door and window
- 7.5.2 Timber construction of upper floors
- 7.5.3 Design and construction of stairs

7.6 Flooring and Finishing

- 7.6.1 Floor finishes: brick, concrete, flagstone
- 7.6.2 Plastering

8. Water Supply and Sanitation Engineering

8.1 General

- 8.1.1 Objectives of water supply system
- 8.1.2 Source of water and its selection: gravity and artisan springs, shallow and deep wells; infiltration galleries

8.2 Gravity Water Supply System

- 8.2.1 Design period
- 8.2.2 Determination of daily water demand
- 8.2.3 Determination of storage tank capacity
- 8.2.4 Selection of pipe
- 8.2.5 Pipe line design and hydraulic grade line

8.3 Design of Sewer

8.3.1 Quantity of sanitary sewage

8.3.2 Maximum, Minimum and self cleaning velocity

8.4 Excreta Disposal and Unsewered Area

8.4.1 Pit latrine

8.4.2 Design of septic tank

9 . Irrigation Engineering

9.1 General

9.1.1 Need for irrigation; advantages of irrigation

9.1.2 Sources of irrigation: water, river & streams, ground water and others

9.1.3 Methods of irrigation: surface, sub-surface and others

9.2 Irrigation Water Requirement

9.2.1 Crop season, principal crops, and crop water requirements

9.2.2 Base period & duty

9.3 Irrigation Canals

9.3.1 Canal losses and their minimization

9.3.2 Irrigation requirements and design discharge of canal permissible velocities for different canals

9.3.3 Design of canal based on Manning's & Lacey's formulae

9.3.4 Need and location of escapes

9.3.5 Components of distribution system

10. Highway Engineering

10.1 General

10.1.1 Classification of road in Nepal

10.1.2 Basic requirements of road alignment

10.2 Geometric Design

10.2.1 Basic design control and criteria for design

10.2.2 Elements of cross section, typical cross-section for all roads in filling and cutting

10.2.3 Camber

10.2.4 Determination of radius of horizontal curves

10.2.5 Super elevation

- 10.2.6 Sight distances
- 10.2.7 Gradient
- 10.2.8 Use of Nepal Road Standard and subsequent revision in road design
- 10.3 Drainage System
 - 10.3.1 Importance of drainage system and requirements of a good drainage system
- 10.4 Road Pavement: Pavement structure and its components: subgrade, sub-base, base and surface courses
- 10.5 Road Machineries
 - 10.5.1 Earth moving and compacting machines
- 10.6 Road Construction Technology
- 10.7 Road Maintenance and Repair: Type of maintenance works
- 10.9 Tracks and Trails

11. Estimating and Costing

- 11.1 General
 - 11.1.1 Main items of work
 - 11.1.2 Units of measurement and payment of various items of work and material
 - 11.1.3 Standard estimate formats of government offices
- 11.2 Rate Analysis
 - 11.2.1 Basic general knowledge on the use of rate analysis norms prepared by Ministry of Works and Transport and the district rates prescribed by district development committee
- 11.3 Specifications
 - 11.3.1 Interpretation of specifications
- 11.4 Valuation
 - 11.4.1 Methods of valuation
 - 11.4.2 Basic general knowledge of standard formats used by commercial banks and NIDC for valuation

12. Construction Management

- 12.1 Site Management
 - 12.1.1 Preparation of site plan
 - 12.1.2 Organizing labor
 - 12.1.3 Measures to improve labor efficiency
 - 12.1.4 Accident prevention

12.2 Procurement and Contract Procedure

12.2.1 Contracts and its types

12.2.2 Departmental works and day-work

12.2.3 Preparation of tender document

12.2.4 Tender procedure

12.2.5 Contract agreement

12.2.6 Conditions of contract

12.2.7 Construction supervision

12.3 Planning and Control

12.3.1 Construction schedule

12.3.2 Equipment and materials schedule

12.3.3 Construction stages and operations

खण्ड-२: कम्प्युटर सम्बन्धी प्रयोगात्मक परीक्षा -५० अङ्क

समय: ३० मिनेट

1. Computer fundamental
2. Operating System
3. Word processing
4. Electronic spreadsheet
5. Database management system
6. Presentation system
7. Internet Browsing & Website Management.