

परिशिष्ट-२
(दफा-३ सँग सम्बन्धित)

आवेदनको ढाँचा

पासपोर्ट
साईजको फोटो

कार्यालय प्रयोजनको लागि
परिक्षार्थीको रोल नं. :

उम्मेदवारले दरखास्त फाराम भरेको पद सम्बन्धी विवरण

पद :	तह :
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आवेदकको व्यक्तिगत विवरण

नाम थर :		लिङ्ग :	
नागरिकता नं. :	जारी गर्ने जिल्ला :	जारी मिति :	
स्थायी ठेगाना	(क) प्रदेशको नाम :	(ख) जिल्ला :	(ग) स्थानीय तहको नाम :
	(घ) वडा नं. :		
पत्राचार गर्ने ठेगाना :	सम्पर्क नं. :	ईमेल :	
बाबुको नाम, थर :	आमाको नाम, थर :		
बाजेको नाम, थर :	पति/पत्नीको नाम, थर :		
जन्म मिति	(वि.सं.मा)	(ईस्वी सन्मा)	दरखास्त दिने मितिमा आवेदकको उमेर (वर्ष तथा महिनामा) :

शैक्षिक योग्यता सम्बन्धी विवरण एस एल सी देखि माथि

योग्यता	विद्यालय/विश्वविद्यालय	उत्तीर्ण गरेको साल	प्राप्तांक प्रतिशत/सी.जी.पी.ए.

अन्य विवरण		
रक्त समूह :		
आपतकालीन सम्पर्क	नाम :	ठेगाना :
	नाता :	सम्पर्क नं. :

उपरोक्त बमोजिमको विवरण साँचो हो, भुट्टा ठहरे प्रचलित कानून बमोजिम सहुंला/बुभाउँला ।

दायाँ	बायाँ
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हस्ताक्षर

परिशिष्ट-३

(दफा-३ सँग सम्बन्धित)

प्रवेशपत्रको ढाँचा

.....गाउँपालिका/नगरपालिका
.....गाउँ/नगर कार्यपालिकाको कार्यालय
जिल्ला :
प्रदेश :, नेपाल

प्रवेशपत्र

परिक्षार्थीले भर्ने

(क) नाम, थर :

(ख) पद :

(ग) तह :

(घ) उम्मेदवारको दस्तखत नमूना :

गाउँ/नगर कार्यपालिकाको कार्यालयले भर्ने

यस कार्यालयबाट लिइने उक्त पदको परीक्षामा तपाईंलाई सम्मिलित हुन अनुमति दिइएको छ ।
विज्ञापनमा तोकिएको शर्त नपुगेको ठहर भएमा जुनसुकै अवस्थामा पनि यो अनुमति रद्द हुनेछ ।

रोल नम्बर :

पासपोर्ट साईजको फोटो

.....
(कर्मचारीको दस्तखत)

.....
(कार्यालयको छाप)

परिशिष्ट:-४

(दफा-५(५) संग सम्बन्धित)

प्राविधिक सहायकको पाठ्यक्रम

(क) सेवा सम्बन्धी

खण्ड-१:- प्रशासनिक कार्य सम्बन्धी

१. रोजगारीको हकसम्बन्धी ऐन, २०७५ र रोजगारीको हकसम्बन्धी नियमावली, २०७५,
२. 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,
३. कामका लागि पारिश्रमिक (Cash for Work) को अवधारणा,
४. स्थानीय तहको बजेट तर्जुमा प्रकृया, खर्च व्यवस्थापन र लेखा परीक्षण तथा गुनासो व्यवस्थापन,
५. सामाजिक परिचालन, सार्वजनिक सुनुवाई, सामाजिक लेखापरीक्षण तथा गुनासो व्यवस्थापन, र
६. आचरण तथा अनुशासन र सुशासन।

खण्ड-२:- प्राविधिक कार्य सम्बन्धी

- स्थानीय सेवाको इन्जिनियरिङ् सेवा, सिभिल समूह पाँचौ तह सब-इन्जिनियर पदको लोकसेवा आयोगले निर्धारण गरेको देहाय बमोजिमको पाठ्यक्रमका विषयवस्तुहरु:

1. Surveying

1.1 General

1.1.1 Principle and types of surveying

1.1.2 Units, scales and maps

1.1.3 Field books and Level books

1.2 Levelling

1.2.1 Principles and methods of levelling

1.2.2 Levelling instruments and accessories

1.3 Plane Tabling

1.3.1 Equipments required

1.3.2 Methods of plane tabling

1.3.3 Two and three point problems

- 1.4 Theodolite and Traverse surveying
 - 1.4.1 Basic difference between different theodolites
 - 1.4.2 Temporary adjustments of theodolites
 - 1.4.3 Fundamental lines and desired relations
 - 1.4.4 Tacheometry: stadia method
 - 1.4.5 Trigonometrical levelling
 - 1.4.6 Checks in closed traverse

- 1.5 Contouring
 - 1.5.1 Characteristics of contour lines
 - 1.5.2 Method of locating contours
 - 1.5.3 Contour plotting
- 1.6 Setting Out: Small buildings and Simple curves

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

4.4 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

5.6 Foundation Engineering

5.6.1 Terzaghi's general bearing capacity formulas and their application

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 sections

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 Introduction to transportation systems
- 10.1.2 Historic development of roads
- 10.1.3 Classification of road in Nepal
- 10.1.4 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 Superlevation
- 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 Bridge: T-beam bridge and Timber bridges
- 10.8 Road Maintenance and Repair: Type of maintenance works
- 10.9 Tracks and Trails
- 10.10 **Airport Engineering:** Planning and layout of Heliports; Terminal Building and Control Tower; Drainage System for Airports

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 Organization
 - 12.1.1 Need for organization
 - 12.1.2 Responsibilities of a civil Sub- engineer
 - 12.1.3 Relation between Owner, Contractor and Engineer

12.2 Site Management

- 12.2.1 Preparation of site plan
- 12.2.2 Organizing labor
- 12.2.3 Measures to improve labor efficiency
- 12.2.4 Accident prevention

12.3 Procurement and Contract Procedure

- 12.3.1 Contracts and its types
- 12.3.2 Departmental works and day-work
- 12.3.3 Preparation of tender document
- 12.3.4 Tender procedure
- 12.3.5 Contract agreement
- 12.3.6 Conditions of contract
- 12.3.7 Construction supervision

12.4 Accounts

- 12.4.1 Administrative approval and technical sanction
- 12.4.2 Familiarity with standard account keeping formats used in governmental organizations
- 12.4.3 Muster roll
- 12.4.4 Completion report

12.5 Planning and Control

- 12.5.1 Construction schedule
- 12.5.2 Equipment and materials schedule
- 12.5.3 Construction stages and operations
- 12.5.4 Bar chart

(ख) कम्प्युटर सम्बन्धी

1. Computer fundamental
2. Operating System
3. Word processing
4. Electronic spreadsheet
5. Database management system
6. Presentation system