Syllabus for Senior Manager (Contracts – Systems/Rolling Stock)
Vacancy Notice No. 09/2020

Domain Knowledge ≈ **70%**

1. Principle of Public Procurement.
2. Type of work Contracts- Item Rate, Lump-sum, Cost plus contract.
3. Type of consultancy contract: Time based, lump-sum.
4. Type of Tenders- Open, Limited & Single Tender
5. Eligibility criteria of tenders
6. General condition of yellow book and red book contracts.
7. Various source of selection of contractor/consultant including evaluation of tenders: Least Cost Selection, Quality Cost based Selection, Quality Based Selection
8. Instructions to Bidders (ITB), bidding forms of different type of tenders.
9. Arbitration & Dispute resolutions
10. Indian contract law
11. Contract Management principles
12. Procurement guidelines of various funding agencies (JICA, ADB, World Bank, Multi-Lateral banks.
13. Public Procurement: Preference to Make in India
14. E-tendering process.

General Awareness, English, Reasoning ≈ **30%**

Syllabus for Assistant Manager (Architecture)
Vacancy Notice No. 18/2020

Domain Knowledge ≈ **70%**

Architecture & Design	Planning and design considerations for different building types, Anthropometrics, Site planning, Barrier-free design, Circulation- horizontal and vertical, Space Standards, National Building Code and Building Bye-laws.
Transit Architecture	Passenger flow, circulation areas, Station Egress Capacity Design Calculations.
Building Materials, Construction & Management	Behavioural applications and characteristics of various building materials, Fire resistance and Ratings, Low VOC, Principles of Modular Coordination, Estimation, valuation, specification, professional practice, Project management techniques, Construction planning and equipment e.g. CPM, PERT etc.
Environmental Planning & Design	Green Building- Concepts & Rating, ECBC, Climate responsive design, Solar architecture.
Urban Design	Site planning; Landscape design; Development controls – FAR, densities and building byelaws.
Urban Planning & Housing	Residential densities, Standards for housing and community facilities. Types of plans - City Development Plan, Master Plan, Structure Plan, Action Area Plan, Zonal Plan, Town Planning Scheme, Emerging concepts of cities - Smart City, Eco-City, SEZ, Transit Oriented Development (TOD), SRZ etc. Sustainable urban development
Building Services,	Building Services: Sewerage and Storm water drainage systems, Water supply systems, Sanitary fittings and fixtures, Electrical services in building, Elevators and Escalators - standards and uses, Intelligent Buildings, Air-Conditioning systems, Building Safety & Security systems and Firefighting Systems. Land – transportation integration, urban form inter-relationships, Design of road intersections, parking areas, Mass Rapid transport systems, Pedestrian and Non-Motorized infrastructure.
Software Skills	Autocad 2D, BIM-Revit Architecture, MS Office

General Awareness, English, Reasoning ≈ **30%**