

CURRICULUM VITAE

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Ajaya Kumar Dhal

<u>Present Position</u>	Scientist , Central Road Research Institute ,New Delhi
<u>Profession</u>	Civil Engineer
<u>Professional Experience</u>	Nearly 20 years (including 1 & 1/2 year master programme)
<u>Nationality</u>	Indian
<u>Membership of professional societies</u>	Indian Road Congress (IRC) and Bureau of Indian Standards (BIS)

Key Qualifications

Subsequent to completion of **Master Degree** from NIT Rourkela in **Structural Engineering**. I have acquired extensive professional experience of more than 20 years in the field of Highway construction industries associated with various type of work i.e planning, design, material testing, execution, consultancy services and contract management etc. Apart from experience of various types of projects bridges I am extremely fortunate to be part of two mega highways development programme of union Government such as PMGSY programme for rural road development and up-gradation of National Highways from 2 lane to 4/6 lane under various NHDP programme.

I have experience in administrating and handling nearly 20 construction of mega highway projects/ packages costing more than 100mn\$ under NHDP projects . Most of these construction packages were funded by foreign financial institution like World Bank/ADB under Grand Trunk Road Improvement Project (GTRIP) and Third National Highway Project (TNHP)) mainly Widening and strengthening of existing two lane roads to four/six lane of NH-2 for a length.

My broad range of experience covers conceptualization, planning, budgeting, design, contract procurement & project management of highways, bridges, rural roads and National Highways. While handling various projects I have gathered extensive knowledge in administration of large highway projects based on FIDIC condition

of contract along with vast experience of dealing various issues pertaining to procurement, contractual claims, arbitration etc. beside a actively engaged in execution of road infrastructures of international standards. Also dealing with scientific problems related to specifications and viable solutions to the implementation issues

Academic Qualification

- BE Civil and M (Tech) in Structural Engineering from NIT Rourkela

Employment Record

2012 July to April 2016

Employer

CSIR-CRRI

Position

Scientist

Duties/Responsibility

- Giving training to the Field Engineer on the issues related to contract, DPR and project management of Mega Highways project
- Literature studies of various effective road module and their financial viability in the context of Indian highways and infrastructure demand
- Member of the team to conduct technical audits of 7- NHA four lane packages as per demand of World Bank
- Scientific study and papers related to construction issues and contract management.
- Acting as Team Leader/project leader (as Quality consultant) for **Quality control and work monitoring for the stretch from Mongalpuri- Mukarbachowk of elevated expressway/access free outer ring road .The superstructure is of innovated concept having segmental construction with central spine of 8m width and then stitched with 8 m wings at either ends (total cantilever projection of nearly 14m).**Client is UP PWD

Feb2004 to June 2012

Location

Delhi & UP

Employer

National Highways Authority of India (NHAI),on deputation

Duties/responsibilities

- Budgeting, action plan, estimation and execution monitoring of Quality, quantity and time aspects with respect to contract management.
- Procurement of Civil Contract and DPR/S.C contract
- Preparation of Bidding documents, amendments and clarifications to bidders.
- Evaluation and Award of Civil Contract
- Monitoring construction activities and related issues
- Dealing of Variations in the Contract, extension of time proposal
- Dealing with various Govt. bodies for clearance of land acquisition, utility shifting, forest clearances and other local issues
- Handling disputes and arbitration issues of the Contract.
- Handling Court cases of 4 terminated contracts.
- Team management at PIU and at corporate level
- Participation in future planning and development programme of NHAI.
- Dealing with various issues with World bank/ADB.
- Projects structuring for implementation in different EPC and PPP modes.
- Procurement/AppointmentsDevelopers/contractors/concessioner/consultants etc.

- Review of feasibility/DPR prepared by consultants and Review of financial analysis/financial viability of the projects prepared by financial consultants.
- Preparations of proposal for getting approval from PPPAC (Public Private Partnership appraisal committee) and planning Commission. Note for CCI (Cabinet Committee for Infrastructure)

2000-2004

Location

New Delhi

Employer

Central Road Research Institute (CRRRI)

Position

Scientist 'B'

Work done

Material Testing

- Testing of materials such as reinforcement, bearings, concrete cubes, RCC pipe etc.
- Non destructive test of concrete structures and their analysis.
- Preparation of mixed design of various type of concrete grade.
- High performance concrete.
- Mix design of mastic asphalt.

Major projects handled:

- Planning, design and construction supervision of 45 km. of city road in Dwarka, one of the new developed city in Delhi. This involves the work of six lane divided carriageway with flexible pavement, complete drainage scheme, intersections and around 25 nos. of bridge and CD structures.
- Active participation in preparing technical specifications and standard manual for implementation of one of the prestigious national programme i.e. **PMGSY**. CRRRI being the nodal technical agency to support Ministry of Rural Development for implementation of this programme, assigned the responsibility to conduct workshops, prepare technical documents and specifications, train officials of local Govt. bodies for executing the roads as per the specified standard and quality. This was for a projected cost of Rs. 60,000 crores with a scheduled execution period of 7 years.
- Design of Bridges 4 no. of pages with RCC T garder and PSC super-structure for flood control department, Haryana.

Publications and R&D Reports:

- "Beneficiation of Soft Aggregate for Use in Bridges", Bridge and Structural Engineer, International Association of Bridge and Structural Engineers, Vol. 35, No. 3, September 2005, pp. 15-34 (sent on 31.12.03).
- "Charts for optimum design of Parallel-Chord Pratt Truss Bridges under Moving Loads" accepted for publication in Highway Research Bulletin, Indian Roads Congress, No. 71, December 2004, pp 161-184.(sent on 1.12.03).
- "An appraisal of design problems of Cross Drainage Structures in Rural Roads under P.M.G.S.Y." Indian Road Congress
- "Seismic Resistance Design of Bridges-A comparative study of Coadal provision" report in CRRRI OLP-2303.

1996 – 1999

Delhi

Location

Employer

- (i) Inter Continental Consultants and Technocrats (ICT) Pvt. Ltd.
Green Park, New Delhi - 2 years
- (ii) Sheldia/PBI/MRC joint venture (MNC) - 1^{1/2} year

Bridge / Structural Engineer

Position

Work done

Consultancy problems related to bridges which includes **Feasibility study of Bridges/Structures, preparation of P.P.R./D.P.R., Analysis and Design of various type of Bridges, Quality control and supervision of bridges, load testing, Rating of bridges, non-destructive testing, Rehabilitation schemes** etc. I have worked in various **National Highway four/six laning** projects, details enclosed.

Important projects handled:

- Detailed design, Preparation of structural drawings, Submission of detailed project reports for R.C.C. Slab, T-Beam slab, Box/voided super-structure and well/open foundations under ARIASP (World Bank aided project in Assam).
- Detailed design of few bridges in **NH-1**, four laning project.
- Four laning of **NH-24** from Agra Km 200 to Km 380 Km, inventory and assessment of bridges and Preparation of P.P.R.
- Four laning of **NH-5** from Chandikhol to Kharagpur and Bhubaneswar to Khurda, inventory and assessment of bridges and preparation of P.P.R. Condition survey of old bridges on NH-5 (load testing of 6 no. of bridges and NDT of 12 no. of bridges) in association with I.I.T. Kharagpur. Preparation of rehabilitation scheme.
- Planning and design of three nos. of viaducts in Mumbai-Pune expressway project.
- New Nizamudin Bridge project on **NH-24**, inspection, quality supervision and approval of construction activities in progress.
- Rehabilitation of Jammu-Tawi Bridge on **NH-1A**.

Training

- An exhaustive interactive training work shop in Public Private Partnership project implementation programme, where procurement, execution & revenue through BOT and annuity scheme were highlighted, was conducted by M/s IDFC, in Oct, 2006 in accordance to principal policy of NHAI to play major role to implement various future NHDP programmers on PPP model.
- Training programme in Project Management conducted by National Productivity Council in April, 2006. The focus of the programme was to train Govt. Executives for better management of multi crore Govt. funded projects.
- Workshop on Road Information System organized by NHAI, demonstrating integrated system for diversified multi task operation with information technology.
- Organizing and delivering trainings to the executives of various state government officials

Language & Degree of Proficiency

	<u>Read</u>	<u>Write</u>	<u>Speak</u>	<u>Understanding</u>
Hindi	Excellent	Good	Excellent	Excellent
English	Excellent	Excellent	Excellent	Excellent
Bengali	not	average	average	Good
Oriya	Excellent	Excellent	Excellent	Excellent

Computer Knowledge

Basic knowledge of MS-Word, Ms-Excel and Application of Software packages like STAD and STRAP

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(A. K. Dhal)

Scientist ,BES Division

