**CURRICULUM VITAE (CV)**

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| **Position Title and No** | Civil Engineer |
| **Name of Expert:** | Dr. Nitin Jhanwar |
| **Date of Birth:** | 25th June 1967 |
| **Country of Citizenship/Residence** | India |

| **Name of Institute** | **Degree(s) or Diploma(s) obtained:** | **Date** | **Specialization** |
| --- | --- | --- | --- |
| Belford University, UK | Doctorate of Philosophy | 2006-2007 | Civil Engineering |
| MREC,(MNIT) Jaipur | Master in Engineering | 2000-01 | Transportation |
| S.V. Regional College of Engineering &Technology, Surat (Gujarat), (SVNIT) (1985-1989) | Bachelor of Engineering | 1985-1989 | Civil |

**Employment Record relevant to the assignment**:

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| **Period** | **Employing organization and your title/position. Contact information for references** | **Country** | **Summary of activities performed relevant to the Assignment** |
| Dec 2022 till Date | Mottmac India Private Limited as Sub Consultant, recruited mainly for CMP of Aizawl City. Also giving inputs in other projects in India | India | Comprehensive Mobiity Plan of the city of Aizawl in Mizoram. I am the Senior Highway Engineer and responsible for the Road Development Plan. |
| April 2020-till date | GPCL Consulting Services Limited (GPCL), formerly known as Global Procurement Consultants Limited | India | Empanelled as Consultant  As part of team of Lenders Engineer for quarterly progress and financial review which includes site inspection and approving as constructed works. |
| October 2020-till date Feb 2022 | Ojowa Construction Capital Group of the Ojowa Empire | Kenya/India | As Vice president of OCCG and Independent Director.  Affordable Housing Units anchored on Key Pillars.  Review of design and contract management**.** |
| Jan 2019 till Jan 2022 | Ocirkhut Consultants –Mangolia | Mongolia/ India | * On panel as Senior Consultant for Civil Engineering inputs .   Review of Design of Institutional buildings in the City of UlaanBataar |
| Jan 2019 | Global Investment & Development Consulting LLC-Dubai, UAE | UAE/India | * On panel as Senior Consultant for Civil Engineering inputs of Transactory Advisory services and on Board of Directors as an Advisor-Civil Engineering |
| Jan 2020 | Lochan and Company | India | * On Panel as Senior Consultant for projects of Disbursement Level Indicators |
| Jan 2020 till date | Total Synergy Consulting Private Limited | India | * On Panel as Senior Consultant for projects of various multilateral funding agencies. |
| Jan 2019 till date | Shrikhande Consultants Private Limited | India | * As a peer reviewer of the Highway Sector |
| August 2018 till date till Dec 2018 | Almondz Global Infra (Deputy Team Leader Cum Construction Manager- SMART CITY MISSIOM,DHARAMSHALA-Himachal Pradesh) | India | * Reviewing and preparing Detailed Project Reports of Project Components. * Reviewing and preparing Bid Process Management Documents. * Formulating Contracts for Contractors and Construction process management |
| April 2018 –till January 2021 | Shah Technical Consultants (P) Ltd (Road Expert) | India | * Quality Audit and design of Roads and ancillary works of ten towns in the state of Rajasthan which included site inspection and approving as constructed drawings for billing purpose. |
| Dec 2017 – March 2018 | TPFEPL / General Manager-Transportation | India | * Responsible for Preparation of PPR including, methodology, drawings, design and mix design. * Performance Monitoring and Contract management * Review and Compliance of Construction Drawings * Supervision of the project |
| Oct 2017 – Nov 2017 | Shah Technical Consultant Pvt. Ltd./Freelancer Road Expert | India | * Responsible for total Quality audit of the pavement maintenance component including verifying and approving methodology, drawings and mix design. * Performance Monitoring and Contract management * Review and Compliance of Construction Drawings * Supervision of the project |
| 2009 to 2010 and 2016 – 2018 | Kautilya Institute of Technology and Engineering / Associate Professor | India | * Preparing curriculae manuals * Guiding Students in their internship and project especially on roads. * Design and Supervision and Contract Management, encompassing water and sanitation. Site inspections and certification of works. |
| 2016 – 2016 | SCPL / Team Leader  Ref:Rajiv Shrikhandhe | India | * Responsible for total Quality audit of the pavement maintenance component including verifying and approving methodology, drawings and mix design. * Performance Monitoring and Contract management * Review and Compliance of Construction Drawings |
| 2012 -2016 | JIEM / Vice Principal | India | * Preparing curriculae manuals * Guiding Students in their internship and project especially on roads * Design and Supervision and Contract Management, encompassing water and sanitation. Site inspections and certification of works. |
| 2012 – 2014 | TSCPL (Pvt .Ltd) / Senior Consultant  Ref: Total Synergy Consultants P Limited | India | * Preparation for e-tools for Project Management and Construction management of highways with the help of prevalent softwares. * Prepared process flow for the above, Including e-tools for quality management. |
| 2011 – 2013 | ICT (Pvt .Ltd) / Consultant | India | * Verification of design and drawings including Contract Management of Highway Sector * Performance Monitoring and Contract management * Review and Compliance of Construction Drawings |
| February 2011 – 2014 | Suresh GyanVihar University, Jaipur, HoD / Visiting Professor  Name: Suresh Gyan Vihar University Position :Head of Department | India | * Preparing curriculae manuals * Guiding Students in their internship and project especially on roads Design and Supervision and Contract Management, encompassing water and sanitation. Site inspections and certification of works. |
| 2013-2016 | HOD/Visiting Professor  Vivekanada Institute of Technology,Jaipur | India | * Preparing curriculae manuals * Guiding Students in their internship and project especially on roads Design and Supervision and Contract Management, encompassing water and sanitation. Site inspections and certification of works. |
| 2011 – November 2012 | Arya College of Engineering and Research, Kukas, Jaipur / Associate Professor & HOD of Civil Engineering Department | India | * Preparing curriculae manuals * Guiding Students in their internship and project especially on roads * Design and Supervision and Contract Management, encompassing water and sanitation. Site inspections and certification of works. |
| January 2010 – March 2010 | Consulting Engineer Group / Highway Design Engineer | India | * Verification of design and drawings including Contract Management of Highway Sector * Performance Monitoring and Contract management * Review and Compliance of Construction Drawings |
| July 2008 – November 2008 | Jaipur Municipal Corporation / Public Health Engineer  Position: Public Health Engineer | India | Review of Project report of Bus Rapid Transit System with verification of the pavement design for Bus Rapid Transit System corridor. |
| January 2006 – December 2009 | Shri khandhe Consultants Pvt. Ltd / Team Leader | India | * Total quality audit of Municipal Corporation of Greater of Mumbai * Roads with a Matrix of performance and advising on the remedial measures. * Performance Monitoring and Contract management * Review and Compliance of Construction Drawings |
| January 2006 – Till 2008 | PushpGiri and Colonizer Infrastructure Pvt. Ltd., Jaipur / | India | Verification of design and drawings including Contract Management of minitownship.  Design and Contract Management, encompassing water and sanitation |
| April 2005 – March 2005 | IPE (Pvt.Ltd) / Bridge and Road Expert  Name: | India | Verification of design and drawings including Contract Management of Highway Sector |
| November 2004 – March 2005 | Asian Development Bank / Team Member | India | Procurement related audit including assessing the Project Management vis a vis the resources available of the Consulting and Contracting Firms. |
| March 2004 – October 2004 | Dorsch Consult India Pvt. Ltd. / Senior Pavement Specialist | India | * Verification of design and drawings including Contract Management of Highway Sector * Performance Monitoring and Contract management * Review and Compliance of Construction Drawings |
| 2003 to 2004 | Louis Berger Group |  | * Verification of design and drawings including Contract Management of Highway Sector * Performance Monitoring and Contract management * Review and Compliance of Construction Drawings |
| April 2004– July 2004 | GVK Jaipur – Kishangarh – Expressway Pvt. Ltd / Pavement Engineer | India | * Responsible for verification of design of pavement and construction methodology adopted. * Performance Monitoring and Contract management * Review and Compliance of Construction Drawings |
| August 2001 – August 2002 & August 2003 – February 2004 | Dorsch Consult India Pvt. Ltd. / Highway-cum-Pavement Engineer, Senior Highway Design Engineer | India | Responsible for Traffic Survey, Reconnaissance Survey, Engineering Survey, Assessment of overall capacity Augmentation needs, Analysis of demand-supply gap and Formulation of strategy for implementation. |
| Jan 2001 to Nov.2001 | Sir Owen Williams  Name Design Supervision Of Six Towns in Rajasthan(RUIDP): Position: Pavement Engineer |  | * Verification of design and drawings including Contract Management of Highway Sector * Performance Monitoring and Contract management * Review and Compliance of Construction Drawings |
| August 1999 – July 2000 | Consulting Engineers Group Ltd., Jaipur / Highway Design Engineer | India | * Verification of design and drawings including Contract Management of Highway Sector * Performance Monitoring and Contract management * Review and Compliance of Construction Drawings |
| December 1998 – July 1999 | Sir Owen Williams Innovestment Ltd / Pavement Specialist  Name: Mumbai Pune Expressway Position: Resident Engineer | India | Responsible for:   * Day to day supervision & management, quality control, acceptance, rejection of work and administration of contract. * Verifying periodic measurement of work and preparation of interim payment certificates. * Assisting in preparing Management Information System to facilitate reporting & monitoring, program of major activities of the work. * Performance Monitoring and Contract management * Review and Compliance of Construction Drawings |
| July 1998 – November 1998 | Louis Berger Group / BCEOM / ECI / Highway Engineer cum QA/QC  Ref:  Name: Rajasthan State Highways Project Position: Quantiyt Surveyaor | India | Responsible for:   * Calculations of quantities of the Pay items in the project after rate analysis. * Preliminary analysis of soil characteristics through SPT. * Calculating safe bearing capacity. * Analysis of superimposed load on the bridges. * Performance Monitoring and Contract management * Review and Compliance of Construction Drawings of line departments |
| February 1998 – June 1998 | Engineering Consultants (India), Jaipur  Ref:  Name: Technical Audit Of Roads Of Agricultural Marketing Board Position: Consultant | India | Technical Audit of design and drawings and Quality including Contract Management of Road Sector |
| February 1997 – March 1997 | RG Dangayach and associates / Design Engineer | India | Responsible for:   * Preparation of project report-which included complete design- for Build, Operate and Transfer (BOT) on HindaunByepass , SH -25. The work included economic analysis to arrive at concession period for the bypass and design of the railway over bridge on the bypass, which required a rate analysis and calculation of quantities * Preparation of preliminary project report for Multi-storey parking at Johari Bazar , Jaipur. * Performance Monitoring and Contract management * Review and Compliance of Construction Drawings |
| Nov 1996  Feb 1997 | Louis Berger  Name: Preseabilty Of Six Towns In Rajsthan (RUIDP)  Position: Cost Estimator | India | Verification of design and drawings including Contract Management of Road Sector at feasibility stage |
| 1994 – 1996 | HAQ Consultants / Design Engineer  Ref:  Name: Networking Of Roads For Mizoram State Position: Consultant | India | Verification of design and drawings including Contract Management of Highway Sector |
| 1990 – 1996 | Company Name /Contract Engineer  Ref: Various Constructing Firms  Position: Contract Engineer | India | * Responsible for day to day supervision, quality control, periodic measurements, preparation of interim and final bills, progress reporting of the projects. Works included roads, cross drainage works, minor bridges.(All these works were executed mainly in Jaipur, Udaipur And Bhilwara districts of Rajasthan. * Performance Monitoring and Contract management * Review and Compliance of Construction Drawings |

**Membership in Professional Associations and Publications:**

* Member, Indian Roads Congress (M-25885)
* Life Member, Institution of Engineers (India). (M127186-5)
* Former Member, Consulting Engineers Association of India.(M-352)
* Life Member, Indian Council of Arbitration.(IL/ICA/2167)
* Member, Empanelled in FICCI Arbitration and Conciliation Tribunal (A/2006-244/E)
* Entitled Professional Engineer ,Engineer Council of India (PE/00031/18)
* Fellow Member, Institution of Valuers (India) (F-18718)
* Independent Individual Consultant on Project Basis in Asian Development Bank (022231)
* Independent Individual Consultant on Project Basis in African Development Bank (W001405)
* Registered on the Roster of Consultants of UNESCO-in the engineering, evaluation and dispute resolution of the Natural Resources Sector.
* Registered as a Member with the Cities Development Initiative for Asia.
* On Panel as Independent Individual Consultant of City Managers Association of Rajasthan.
* Former Affiliate Member : American Society of Civil Engineers (Member Id # 9127210)

­­**Language Skills:**  **Speaking Reading Writing**

English Excellent Excellent Excellent

Hindi Excellent Excellent Excellent

**Adequacy for the Assignment:**

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| **Detailed Tasks Assigned on Consultant’s Team of Experts:** | **Reference to Prior Work/Assignments that Best Illustrates Capability to Handle the Assigned Tasks** |
|  | **Please see Annex 1 for further details** |

**Expert’s contact information:**

**Certification:**

I, the undersigned, certify that to the best of my knowledge and belief, this CV correctly describes myself, my qualifications, and my experience, and I am available, to undertake the assignment in case of an award. I understand that any misstatement or misrepresentation described herein may lead to my disqualification or dismissal by the Client, and/or sanctions by the Bank.

Nitin Jhanwar

Name of Expert Signature Date

Name of authorized Signature Date

**11 Work Undertaken that Best Illustrates Capability to Handle the Tasks Assigned**

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|  | **Name of Assignment or Project :** Project Planning and Development Management Consultancy for the city of Aizawl in the state of Mizoram with a focus on NMT in the Comprehensive Mobility Plan  **Year: 2022-2023**  **Location: Aizawl=Mizoram**  **Client: Asian Development Bank**  **Main project features: Comprehensive Mobility Plan**  **Position Held : Senior Highway Engineer**  **Activities Performed: Responsible for the Road Development Plan in the Comprehensive Mobility Plan.** |
| **a.** | **Name of Assignment or Project :** Development of Hulhumale phase 1 remaining road and phase 2 stage 2 roads valued at USD 19.25 mn being executed by Mohan Mutha-Ashoka Buildcon LLP (MMABL), India- EPC Contract awarded by Housing Development Corporation of Maldives  **Year: 2021-2023**  **Location: Hulhumale-Maldives**  **Client: EXIM Bank - India**  **Main project features: Strengthening and Rehabilitation of major and minor arterial road influence area.**  **Position Held : Consultant-Civil Engineer**  **Activities Performed: Carrying out assessment of actual physical progress of works at each site; conduct evaluation of the level of implementation of works against agreed contract timelines; identify causes of delays in implementation of works and recommendation of measures to address shortcomings; and review of civil works supervision and monitoring arrangements as well as contracts management and provide recommendations for improvements, if any.** |
| **b.** | **Name of Assignment or Project :**Urban Living Labs – a project funded by DANIDA and Royal Danish Embassy  **Year:** Jan 2020 -Intermittent  **Location:** Jaipur / Delhi / Panjim, India  **Client:** Royal Embassy of Denmark  **Main project features:**   * Scaling up the Concept of Urban Living Labs   **Position Held :** Infrastructure Solutions Expert.  **Activities Performed:**  Infrastructure solutions with incorporating latest policies and smart tools |
| **c.** | **Name of Assignment or Project :**Project Management Consultancy for Dharmshala Smart City Limited  **Year:** August 2018 to Jan 2019  **Location:** Dharamshala  **Client:** Dharamshala Smart City Limited and Ministry of Urban Housing (India)  **Main project features:**   * Preparation of Design, Bid Documents and Procurement vetting   **Position Held:** Deputy Team Leader (Construction)  **Activities Performed:**  Responsible for internal vetting of bid and design documents and getting them approved from the Steering Committee.  **Responsible for Contractual approval of drawings and designs for civil structures which included Smart School Buildings, War memorial, Roads and Smart Parking.** |
| **d.** | **Name of Assignment or Project :**Road Project of Bharatmala & BMC in Maharashtra state  **Year:**Dec2017- March 2018  **Location:** Mumbai / Jaipur  **Client:** NHAI & BMC  **Main project features:**   * Planning & detailed design of 2-4 Lane Road around 350 kms under NHAI * Planning & detailed design with supervision of 50km road length under BMC   **Position Held:** General Manager- Transportation  **Activities Performed:**  Responsible for planning, design with mix deign, methodology & preparation of DPR for NHAI & with the supervision of BMC roads. Also involved in performance monitoring as per mix design and contract management.  Carrying out assessment of actual physical progress of works at each site; conduct evaluation of the level of implementation of works against agreed contract timelines; identify causes of delays in implementation of works and recommendation of measures to address shortcomings; and review of civil works supervision and monitoring arrangements as well as contracts management and provide recommendations for improvements, if any. |
| **e.** | **Name of Assignment or Project :**PMDSC RUIDP-Phase III Project (ADB Funded)  **Year:** Oct 17- Nov 17  **Location:** Jaipur, Rajasthan, India  **Client:** RUIDP  **Main project features:** Design & Development with supervision of the ongoing works  **Position Held:** Freelancer Road Expert  **Activities Performed:**  Responsible for performance monitoring as per mix design and contract management during construction & after construction. Verification of design and drawings.  **Carrying out assessment of actual physical progress of works at each site; conduct evaluation of the level of implementation of works against agreed contract timelines; identify causes of delays in implementation of works and recommendation of measures to address shortcomings; and review of civil works supervision and monitoring arrangements as well as contracts management and provide recommendations for improvements, if any.** |
| **f.** | **Name of Assignment or Project:** As Consultant/Expert faculty in Educational Institute  **Year: 2009 to** and 2021 (Intermittent as Visiting Professor)  **Location:** Jaipur, Rajasthan, India  **Client:** Kautilya Inst tech.& Engg :Suresh Gyan Vihar University,Jaipur : Vivekanada Institute of Technology,Jaipur : Arya Engineering College,Jaipur : Maharishi Jyotibapulhe Engineering College,Jaipur.  **Main project features:** Developing Curricula manuals and guiding M.Tech Students in their dissertation.  **Position Held:** Associate Professor  **Activities Performed: In addition to my duties as a teaching professor Carrying out assessment of actual physical progress of works at the Institutional Building; conduct evaluation of the level of implementation of works against agreed contract timelines; identify causes of delays in implementation of works and recommendation of measures to address shortcomings; and review of civil works supervision and monitoring arrangements as well as contracts management and provide recommendations for improvements, if any.**   * Preparing curriculae manuals * Guiding Students in their internship and project especially on roads |
| **g.** | **Name of Assignment or Project :Operation and Maintenance of Mumbai Worli Sea Link**  **Year:**2016  **Location:** Mumbai / Jaipur, Rajasthan, India  **Client:** Mumbai Metropolitan Region Authority  **Main project features:** Three lane divided configuration. Maintenance of Bituminous Pavement after milling and applying modified bituminous wearing coat. A project of 15.0 Kms  **Position Held:** Team Leader  **Activities Performed:**  Responsible for total Quality audit of the pavement maintenance component including verifying and approving methodology, drawings and mix design. |
| **h.** | **Name of Assignment or Project:** Consultancy Services for Detailed Engineering of Batsumber road Regional Transport Infrastructure Development to Improve Food suuply of Ulaan baatar,BMZ ID 2008 65 162  Client (Government of Mangolia, Ministry of Transport, Construction and Urban Development (MRTCUD/Department of Roads (DOR)   * Consultancy services for Detailed Engineering Design for Hargeisaand Berbera Airports,Somaliland.   **Client** Project Implementation Unit , Department of Civil Aviation Hargesia Airport.   * Independent Engineer Services for four laning of Hazipur Muzaffarpur Section of NH 77 from Km 0.000 to Km 46.300 and Construction of 16.870 Km new bypass starting from 46.300 and connecting NH-28 of east west corridor at Km 515.045 in the state of Bihar under NDHP phase III.   **Client :** NHAI   * Project Management Consultancy for Design, Construction , Finance Operation and Maintenance of four laning of Market pally-Addanki-Medarmetla Road (SH-2) from km 0.000 to Km 212.500 in the state of Andra Pradesh under PPP on DBFOT (toll) Basis.   **Client** IL&FS Transport Networks Limited.   * Independent Engineer Services for 4-Laning of Haridwar-Dehardun section of NH-58 from Km 211.00 to 218.200 and NH-72 from km 165.000 to 196.825 in the State of Uttarakhand under NHDP phase III on DBFOT (annuity) basis (pkg No.IE/NHDP-III/up/05)   **Client :** NHAI   * Consultancy services for carrying out feasibility study, preliminary design, detailed engineering design and preparation of tender documents for upgrading of Zanzibar Town  Entry Roads, Tanzania Contract no MoIC/HQ/CS/07/2010-11   **Client:** the united republic of Tanzania.  **Year:**2011 – 2013  **Location:** New Delhi, India  **Client:** NHAI / International Road Agencies  **Main project features:** Planning and Detailed design for six to four lane of Highways including preparing various manuals performing design quality audit.  **Position Held:** Consultant  **Activities Performed:**  Verification of design and drawings including Contract Management of Highway Sector. |
| **i.** | **Name of assignment or project:** Preparation of e tools for Project Management  **Year:** June 2012 – Jan 2013  **Location:** New Delhi  **Client:** World Bank  **Main project features:** Preparation of e-tools of project management ,especially during construction of Highways  **Positions held:** Senior Consultant  **Activities Performed**   * Preparation for e-tools for Project Management and Construction management of highways with the help of prevalent softwares. * Prepared process flows for the above, including e-tools for quality management. |
| **j.** | **Name of assignment or project:** Project Management Consultancy Services for 6-laning of Jaipur Bypass (38 km).  **Year:** Jan. 2010 – Mar. 2010  **Location:** Jaipur, Rajasthan, India  **Client:** National Highway Authority of India  **Main project features:** Three lane divided configuration Zone D of Jaipur city. A project of 50.0 kms with high embankment.  **Positions held:** Highway Design Engineer  **Activities performed:**   * Performance Monitoring and Contract management * Review and Compliance of Construction Drawings |
| **k.** | **Name of assignment or project:** Jaipur BRTS project Jaipur , Verification of Drainage Master Plan of entire Jaipur City, JNNURM funded projects for Jaipur Municipal Corporation  **Year:** Jul. 2008 – Nov. 2008  **Location:** Jaipur, Rajasthan, India  **Client:** Jaipur Municipal Corporation  **Main project features:** Verified the Mass Rapid Transit system and prepared check lists for Quality control for roads in Jaipur City  **Positions held:** Public Health Engineer  **Activities performed:**  Review of Project report of Bus Rapid Transit System with verification of the pavement design for Bus Rapid Transit System corridor. |
| **l.** | **Name of assignment or project:** Quality Audit of Municipal Road  **Year:** Jan. 2006 – Dec. 2009  **Location:** Greater Mumbai  **Client:** Municipal Corporation of Greater  **Main project features:** Quality Audit Approximately 200 km of 2/3 lane with divided configuration) for Municipal Corporation of Greater Mumbai  **Positions held:** Team Leader  **Activities performed:**   * Total quality audit of Municipal Corporation of Greater of Mumbai * Roads with a Matrix of performance and advising on the remedial measures. |
| **m.** | **Name of assignment or project:** Consultancy Services for Preparation of Detailed Project Report for Two Township  **Year:** Jan. 2006 – 2014  **Location:** Jaipur, Rajasthan, India  **Client:** PushpGiri and Colonizer Infrastructure Pvt. Ltd., Jaipur  **Main project features:** Consultancy services for preparation of Detailed Project Report for Two Township. Cost of the Project: Rs2500 million (including approximately 15% for road works). The project involved preparation of Technical Specifications and contract documents including design verification  **Positions held:** Team Leader  **Activities performed:**   * Performance Monitoring and Contract management * Review and Compliance of Construction Drawings |
| **n.** | **Name of assignment or project:** Project Preparatory Report for Asian Development Bank for the Remaining 12 Cities in the State of Rajasthan under Rajasthan Urban Infrastructure Development Project. (ADB \_TA Project)  **Year:** Apr. 2005 – Aug. 2005  **Location:** Jaipur, Rajasthan, India  **Client:** RUIDP  **Main project features:** TAProject Preparatory Report for Asian Development Bank  **Positions held:** Bridge and Road Expert  **Activities performed:**  Preliminary Engineering Design and Viability of subprojects. |
| **o.** | **Name of assignment or project:** Project Procurement Related Audit for Surat – Manor Tollway Project (4/6 lane, 60 km) in the State of Gujarat.  **Year:** Nov. 2004 – Mar. 2005  **Location:** Jaipur, Rajasthan, India  **Client:** Asian Development Bank  **Main project features:** Project Audit of Surat Manor Tollway project. Project of 4/6 lane, 60 km in the State of Gujarat of Length of Approximately 100 kms.  **Positions held:** Team Member / Highway Engineer / Quantity Surveyor  **Activities performed:**  Procurement related audit including assessing the Project Management vis a vis the resources available of the Consulting and Contracting Firms. |
| **p.** | **Name of assignment or project:** Independent Consultancy Services for Four-Laning of the Dankuni-Palsit Section of NH-2 (km 581 – km 646) in West Bengal on BOT (Annuity) basis  **Year:** Mar. 2004 – Oct. 2004  **Location:** Jaipur, Rajasthan, India  **Client:** National Highways Authority of India  **Main project features:** A four lane divided configuration highway of approximately 75 kms.  **Positions held:** Senior Pavement Specialist  **Activities performed:**  Responsible for verification of Pavement Design and Construction methodology to be adopted by the EPC Contractor. |
| **r** | **Name of assignment or project:** Design Verification & Project Management Consultancy for 6 cities in Rajasthan part of the Rajasthan Urban Development Project  **Year:**Sep. 2002 – Mar. 2003  **Location:** Jaipur, Rajasthan, India  **Client:** Rajasthan Urban Infrastructure Development Project  **Main project features:** The project covers approximately 1250 km of National Highway / State Highway of 2/4 lane spread in 6 cities namely Bikaner, Jodupur, Kota, Ajmer, Jaipur and Udaipur.  **Positions held:** Civil Engineer  **Activities performed:**   * Performance Monitoring and Contract management * Review and Compliance of Construction Drawings |
| **s.** | **Name of assignment or project:** Construction Supervision of strengthening and rehabilitation of existing three lane carriageway and construction of additional single lane carriageway of Krishangarh to Nasirabad section of NH- 8 (35 km)  **Year :**Dec 2001–Aug 2002 & Aug 2003–Feb 2004  **Location:** Jaipur, Rajasthan, India  **Client:** National Highway Authority of India  **Main project features:** Construction Supervision of strengthening and rehabilitation of existing three lane carriageway and construction of additional single lane carriageway of Krishangarh to Nasirabad section of NH- 8 (35 km)including new four lane 5 km bypass for Kishangarh town on new alignment in the state of Rajasthan.  **Positions held:** Highway-cum-Pavement Engineer  **Activities performed**   * Performance Monitoring and Contract management * Review and Compliance of Construction Drawings |
| **t.** | **Name of assignment or project:** Pre-Feasibility Study for 4 Laning of 50 km State Highway from Ahmedabad to Virangam in the State of Gujarat.  **Year:** Aug. 2001 – Nov. 2001  **Location:** Gujarat  **Client:** Gujarat State Road Development Authority  **Main project features:** The project scope was to find out financial viability of the project is two different scenarios as constructed and as designed as per the tolling rate of Govt. of Gujarat..  **Positions held:** Senior Highway Design Engineer  **Activities performed:** Responsible for Traffic Survey, Reconnaissance Survey, Engineering Survey, Assessment of overall capacity Augmentation needs, Analysis of demand-supply gap and Formulation of strategy for implementation. |
| **u.** | **Name of assignment or project:** Various Road and Highway Projects  **Year:** Aug. 1999 – Jul. 2000  **Location:** India  **Client:** Local / Govt Bodies /NHAI  **Main project features:**Project consist of:   * Detailed Project Report for 6 laning and strengthening of Delhi Border to Haryana Border from km 0.000 to km 16.000, (Total length: 16 km) of NH-1A. **Client: NHAI**. * Detailed Project Report for 4 laning and strengthening of Indore to Kalghatkm 10.000 to km 50.000,(Total length: 40 km)of NH-3 in the state of Madhya Pradesh. **Client: MoRTH.** * Drawing and Designing (pavement & geometrics) of L section and X section of Kota bypass with the help of Autocad and Autoplotter softwares, **Client : Avas Vikas Limited** * Feasibility study for flyovers in Jaipur city**. Client: JDA** * Construction Supervision and Design of Geometrics & pavement of ROB at JLN Marg, Jaipur. **Client: RSBCC** * Construction and Supervision of ROB at KM 368 on NH8, including Quality control of works and supervision of laying of bitumen and rigid pavement and those related to mixing plant and transportation of mixed material.   **Positions held:** Highway Design Engineer  **Activities performed :**Preparation of DPRs, with design , construction & supervision of all the above mentioned projects |
| **v.** | **Name of assignment or project:** Project Management Consultancy Services for Construction Supervision of 16 km, 6-lane Section D - of six lane Mumbai-Pune Expressway (Maharashtra) on basis.  **Year:** Dec. 1998 – Jul. 1999  **Location**: Maharashtra  **Client**: MSRDC  **Main project features:** Project consist of Project Management Consultancy Services for Construction Supervision of 16 km, 6-lane Section D - of six lane Mumbai-Pune Expressway (Maharashtra) on basis.  **Positions held:** Pavement Specialist  **Activities performed:** Responsible for:   * Day to day supervision & management, quality control, acceptance, rejection of work and administration of contract. * Verifying periodic measurement of work and preparation of interim payment certificates. * Assisting in preparing Management Information System to facilitate reporting & monitoring, program of major activities of the work. * Gathering data in preparing reports and summary notes for senior management on physical & financial progress of the projects. * Supervision for construction of embankment, cross drainage works, GSB, WMM, DLC including supervision of conducting normal and controlled blasting. * Supervision of pavement quality concrete which involved use of slip form paver technique. * Ensure the rehabilitation/ strengthening of distressed existing pavements * Ensuring Quality control for various activities by taking insitu and laboratory tests. * Advising the contractor’s representatives in their work plans with respect to the resources and material available. * Check all test and carry out Independent test orders specials tests of materials where Required with prior approval of the employers issue orders for replacement of improper/ unsuitable Materials and dismantling of defective works. * Verify and certify quality of material and completed works, supervise and inspect the performance of work vis-à-vis levels, controls, workmen ship, study material report and test results, review and approve manufacture’s certificates |
| **w.** | **Name of assignment or project:** The World Bank funded project basically comprises of detailed engineering of widening, upgrading and strengthening of about 1500 km. of state highway roads in Rajasthan, taking into account the environmental and social aspects.  **Year**: Jul. 1998 – Nov. 1998  **Location:** Rajasthan  **Client**: Town Planning Department, GORPWD  **Main project features:** Project consist of The World Bank funded project basically comprises of detailed engineering of widening, upgrading and strengthening of about 1500 km. of state highway roads in Rajasthan, taking into account the environmental and social aspects.  **Positions held:** Highway Engineer cum QA/QC  **Activities performed:** Responsible for:   * Calculations of quantities of the Pay items in the project after rate analysis. * Preliminary analysis of soil characteristics through SPT. * Calculating safe bearing capacity. * Analysis of superimposed load on the bridges. * Assisting in Highway design * Quality control of works and process control relating to laying of bitumen and rigid pavement and those related to mixing plant and transportation of mixed material. * Correcting and editing of bridge drawings by the use of Auto Cad. * Rate analysis for some of the pay Items, to arrive at the unit rates. * Preliminary design for roads by (DARWIN TM 3.0). * Preliminary design of brides and CD works. * Identifying and calculation of catchment areas. |
| **x.** | **Name of assignment or project:** Agriculture Development Project (including imparting training and transfer of technology) in Rajasthan – (World Bank funded)  **Year**: Feb. 1998 – Jun. 1998  **Location:** Rajasthan  **Client**: P.W.D., Govt. of Rajasthan  **Main project features:** Technical Examination of 1600 km of rural access roads and bridge works under Agriculture Development Project (including imparting training and transfer of technology) in Rajasthan – (World Bank funded)  **Positions held:** Highway Engineer cum QA/QC  **Activities performed:** Assisting in **carrying out assessment of actual physical progress of works at each site; conduct evaluation of the level of implementation of works against agreed contract timelines; identify causes of delays in implementation of works and recommendation of measures to address shortcomings; and review of civil works supervision and monitoring arrangements as well as contracts management and provide recommendations for improvements, if any.** |
| **y.** | **Name of assignment or project:** Prefeasibility of various sectors in six cities of Rajasthan for Rajasthan Urban Infrastructure Development Project  **Year**: March. 1997 – Oct.1997  **Location:** Rajasthan  **Client**: Town Planning Department , GoR  **Main project features:** Preparing and verifying prefeasiblity designs of water supply, sewerage, transportation, roads for six cities of Rajasthan with an approximate length of 1000 kms of roads in urban and rural sector. |
| **z.** | **Name of assignment or project:** Financial and Economical viability analysis of an ROB (750 m) at Hindaun Bypass in the state of Rajasthan. This was formulated as per the current Road policy of the Government of Rajasthan, India.  **Year**: Feb. 1997 – Mar 1997  **Location:** Rajasthan  **Client**: P.W.D., Govt. of Rajasthan  **Main project features:** Technical Examination of 1600 km of rural access roads and bridge works under Agriculture Development Project (including imparting training and transfer of technology) in Rajasthan – (World Bank funded)  **Positions held:** Design Engineer  **Activities performed :**Responsible for:   * Preparation of project report-which included complete design- for Build, Operate and Transfer (BOT) on Hindaun Byepass , SH -25. The work included economic analysis to arrive at concession period for the bypass and design of the railway over bridge on the bypass, which required a rate analysis and calculation of quantities * Preparation of preliminary project report for Multi-storey parking at Johari Bazar , Jaipur. * Preparation of preliminary project report on benefits of solar houses vis a vis conventional houses for Rajasthan Energy Development Authority. * Preparation of project report for Stock Exchange building at Jaipur. It included preliminary design to arrive at the base cost so that the period of return for the lease money could be determined. * Preparation of project report for swimming pool at SMS stadium at Jaipur. |
| **aa.** | **Name of assignment or project:** Various Road Construction Works for Rajasthan State Public Works Department (PWD).  **Year**: 1990 – 1996  **Location:** Rajasthan  **Client**: P.W.D., Govt. of Rajasthan  **Main project features:** Project consist of:   * Construction and supervision of drain work on Sahapura to Neem Ka Thana road. * Construction and supervision of C.D. works and Causeway on Kant to Bagwara road. * Construction and supervision of link road to Paleda village from Jamua Ramgarh Road * Construction and supervision of drain and quarry rubbish road on New Sanganer Road   **Positions held:** Contract Engineer  **Activities performed:** Responsible for day to day supervision, quality control, periodic measurements, preparation of interim and final bills, progress reporting of the projects. Works included roads, cross drainage works, minor bridges.(All these works were executed mainly in Jaipur, Udaipur And Bhilwara districts of Rajasthan. |