**FORM TECH-6B**

**CURRICULUM VITAE (CV) FOR EXPERTS**

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| 1. **Proposed Position** | | **:** | **K-7 – Senior Pavement Expert** | | | |
| 1. **Name of Firm** | | **:** | **Consulting Engineers Group Ltd.** | | | |
| 1. **Name of Expert** | | **:** | **Sudhir Lal Mathur** | | | |
| 1. **Current Residential Address** | | **:** | L I G H, 417 Nandanvan Chopasani Road, JODHPUR 342001 | | | |
| **Telephone No.** | | **:** | 9435552317 | | | |
| **Fax No.** | |  | - | | | |
| **E-Mail Address** | | **:** | mathursl@rediffmail.com | | | |
| 1. **Date of Birth** | | **:** | 26th September, 1957 | | | |
| **Citizenship**  **[Type of government ID and ID Number.)** | | **:** | PAN Card No.: ABIPM4504A | | | |
| 1. **Education** | | **:** | * **Bachelor of Engineering (Civil Engineering)** from Bhopal University in year **1979.** | | | |
| 1. **Membership in Professional Associations** | | **:** | * Nil | | | |
| 1. **Other Trainings** | | **:** | * Nil | | | |
| 1. **Countries of Work Experience** | | **:** | India | | | |
| 1. **Languages** | | **Language** | | **Speaking** | **Reading** | **Writing** |
| **English** | | Excellent | Excellent | Excellent |
| **Hindi** | | Excellent | Excellent | Excellent |
| 1. **Employment record:** | | | | | | |
| **From** | | **Employer** | | | **Position held** | |
| Aug 2018 to Till Date | | Consulting Engineers Group Ltd. | | | Resident cum Highway Engineer | |
| Aug 2015 to Sept 2017 | | Public Works Department of Rajasthan | | | **Project Director (Similar Capacity)** | |
| Apr 2008 to Aug 2015 | | National Highways Authority of India | | | **Executive Engineer/ Senior Pavement Expert (Similar Capacity)** | |
| Apr 2007 to Apr 2008 | | Public Works Department Rajasthan | | | Assistant Engineer | |
| Aug 2001 to Mar 2007 | | National Highways Authority of India | | | Manager (Civil) | |
| May 1999 to Aug 2001 | | Public Works Department Rajasthan NH Sub Division | | | Assistant Engineer | |
| July 1994 to Apr 1999 | | R.S.B.C.C | | | Assistant Resident Engineer | |
| Aug 1989 to June 1994 | | Public Works Department Rajasthan NH Sub Division | | | Assistant Engineer | |
| May 1981 to July 1989 | | R.S.B.C.C | | | Assistant Resident Engineer /Junior Engineer | |
| Apr 1980 to Apr 1981 | | PUBLIC WORKS DEPARTMENT, RAJASTHAN | | | Junior Engineer | |
| 1. **Detailed Tasks Assigned:** | 1. **Work Undertaken that Best Illustrates Capability to Handle the Tasks Assigned** | | | | | |
| Please refer Form Tech-6A for Detail Tasks assigned to the candidate. | **Name of Assignment: Independent Engineering services for for Four laning of Dangiawas (km 96.595 of NH-112) to Jajiwal (km 283.500 of NH 65 Nagaur road) section- Package-I (Design length 74.619 km) of Jodhpur Ring Road (In Principally declared NH) in the State of Rajasthan on Hybrid Annuity Mode under NHDP phase VII.**  **Month and Year:** Aug 2018 to Till Date; **Location:** Rajasthan; **Client:** NHAI  **Main project features: *Project Length: 74.619 km; Lane: 4; Project Cost: INR 1285.14 Crores;***  **Position held: Resident cum Highway Engineer**  **Activities Performed: Responsible for Overall monitoring, supervision and controls the overall activities of construction including quality control**, time frame, and budget control. **Supervision of road formation in cutting & embankment, sub grades, granular sub base course, base course, water bound macadam, bitumen concrete & asphalt concrete, construction of multi cell RCC culvert, RCC retaining walls.** Also responsible for review of detailed engineering, design, Pavement Designs, planning, estimating & construction supervision; Reviewing and approving the works programme of the Concessionaire including manpower resources, deployment of plant & machinery and stores management; **Inspect the pavement rehabilitation and repair works to be undertaken by the concessionaire**; Ensure that the construction work including pavement construction is accomplished in accordance with the technical specifications through quality control & quality assurance; Determine any extension of the project completion schedule the concession period, to which the concessionaire is entitled and shall notify the NHAI accordingly. Supervise operation and maintenance activities; Ensure recording all correspondence, **checking compliance with technical specifications, rules of contract documents Monthly & other periodical Progress Reports to ensure proper monitoring of various works,** preparing records of all roads & structures in the Project. | | | | | |
| **Name of Assignment: Preparation of DPR and Construction Supervision for Rehabilitation and Upgrading to 2 lane / 2 lane with Paved shoulders configuration and strengthening from km 80.00 (PRATAPGARH) to km 180.00 (PADI) of NH-113 in the State of Rajasthan. (Package No. SP/D/1).**  **Main project features: *Project Length: 100 km; Lane: 2; (i.e. 200 lane km); Project Cost: INR 292.0 Crores; Funded By: World Bank; (EPC Project)*** *(Input more than one year)*  **Name of Assignment: Supervision and Maintenance of Chittorgarh-Neemuch (MP Border) of NH-79 Section (km 183/000 to km 221/400) by four laning & Nimbahera-Pratapgarh of NH-113 Section (km 5/400 to km 80/000) by Two laning in the State of Rajasthan through Public Private Partnership on DBFOT Pattern.**  **Main project features: *Project Length: 38.4 km (4 Lane), 74.6 km (2 Lane); (i.e. 302.8 lane km); Project Cost: INR 511.21 Crores; (PPP Project)*** *(Input more than one year)*  **Month and Year:** Aug 2015 to Sept 2017; **Location:** Rajasthan; **Client:** Public Works Department, Rajasthan  **Position held: Project Director (Similar Capacity)**  **Activities Performed:** Responsible for **highway geometric designs & drawings using latest computer software like MX-Road / Auto CAD etc.** using Innovative & Non-Traditional Technology during development, construction and defect liability Period; Geometric design of highways, junctions, intersections, interchanges, service roads, traffic management plan, traffic calming including longitudinal profile, cross-sectional elements, strip plans, vertical and horizontal curves using design software like MX-Road , Civil 3D & Auto- CAD. **Study the existing roadside drainage system for the Non-Urban project roads considered under this contract**. Shall prepare cost-effective designs for rehabilitation/ reconstruction/ construction of new structures.  **Also responsible for Periodically monitoring the performance of the pavement and ensure life cycle cost effectiveness**. Responsible for ensuring complete adherence to construction/maintenance standards during construction period. **Through Knowledge and understanding of international ‘Best practice’ in the field of design, construction and maintenance of flexible / rigid type of pavement including latest codal stipulations and specifications.** Review and suggest modifications to all pavement performance related aspects in maintenance manual/ programme. **Continuously interacting, to ensure life cycle cost effectiveness and viable design of pavement & suggest** appropriate rehabilitation/strengthening measures of the pavement which is significantly distressed. Monitor the rehabilitation and repair works to be undertaken. Supervise the work as and when required and as per the work programme. Routine/Periodic **inspection of Project Highway** and supervision of construction/O&M works. **Encourage best methods of working and monitoring the quality and quantity of the work to achieve the planned progress**. | | | | | | |
| **Name of Assignment: Preparation of DPR & Supervision of Silchar- Udarband (AS-1) and Harangajo to Maibang (AS-21) from km 309 to km 275.00 & km 165.4.00 to km 190.587 NH-54 in the State of Assam.**  **Main project features: *Project Length: 51.87 km; Lane: 4; (i.e. 207.48 lane km); Project Cost: INR 540.67 Crores; (EPC Project)*** *(Input more than one year)*  **Name of Assignment: Preparation of DPR & Supervision of Harangajo to Maibang (AS-22) and Harangajo to Maibang (AS-23) from km 140.70 to km 164.08 & km 126.450 to km 140.700, km 164.080 to km. 165.400 NH-54 in the State of Assam.**  **Main project features: *Project Length: 40.0 km; Lane: 4; (i.e. 160 lane km); Project Cost: INR 643.74 Crores; (EPC Project)*** *(Input more than one year)*  **Month and Year:** Mar 2013 to Aug 2015; **Location:** Assam; **Client:** NHAI  **Position held: Project Director (Similar Capacity)**  **Activities Performed:** Responsible for **highway geometric designs & drawings using latest computer software like MX-Road / Auto CAD etc.** using Innovative & Non-Traditional Technology during development, construction and defect liability Period; **Design of flexible pavement as per codes and specifications such as IRC: 37-2012 (Guidelines for the design of flexible pavements).** **Design of overlays for strengthening of the existing flexible pavement;** Geometric design of highways, junctions, intersections, interchanges, service roads, traffic management plan, traffic calming including longitudinal profile, cross-sectional elements, strip plans, vertical and horizontal curves using design software like MX-Road , Civil 3D & Auto- CAD. **Study the existing roadside drainage system for the Non-Urban project roads considered under this contract**. Shall prepare cost-effective designs for rehabilitation/ reconstruction/ construction of new structures.  **Also responsible for Periodically monitoring the performance of the pavement and ensure life cycle cost effectiveness**. Responsible for ensuring complete adherence to construction/maintenance standards during construction period. **Through Knowledge and understanding of international ‘Best practice’ in the field of design, construction and maintenance of flexible / rigid type of pavement including latest codal stipulations and specifications.** Review and suggest modifications to all pavement performance related aspects in maintenance manual/ programme. **Continuously interacting, to ensure life cycle cost effectiveness and viable design of pavement & suggest** appropriate rehabilitation/strengthening measures of the pavement which is significantly distressed. Monitor the rehabilitation and repair works to be undertaken. Supervise the work as and when required and as per the work programme. **Encourage best methods of working and monitoring the quality and quantity of the work to achieve the planned progress.** | | | | | | |
| **Name of Assignment: Construction Supervision for Four Laning of Bamanbore- Morbi section from km 182.6 to km 254.0 of NH-8A the state of Gujarat.**  **Main project features: *Project Length: 71.4 km; Lane: 4; (i.e. 285.6 lane km); Project Cost: INR 282.92 Crores; Funded By: ADB; (EPC Project)*** *(input more than one year)*  **Name of Assignment: Construction Supervision for Four lanning of Bhiladi-Jetpur section from km 52.50 to 100.17 in the state of Gujarat.**  **Main project features: *Project Length: 47.67 km; Lane: 4; (i.e. 190.68 lane km); Funded By: ADB; Project Cost: INR 499.83 Crores; (EPC Project)*** *(input more than one year)*  **Name of Assignment: Construction Supervision for Rehablitation and Upgradation of Four lanning of Porbandar- Bhiladi section from km 0.00 to km 52.50 in the state of Gujarat.**  **Main project features: *Project Length: 52.50 km; Lane: 4; (i.e. 210.0 lane km); Funded By: ADB; Project Cost: INR 193.283 Crores; (EPC Project)*** *(input more than one year)*  **Name of Assignment: Construction Supervision for Four Laning of Jetpur-Somnath Section of km. 0.000 to km. 127.000 in the state of Gujarat on Design, Build, Finance, Operate & Transfer (DBFOT) toll basis under NHDP -Phase III.**  **Main project features: *Project Length: 127.0 km; Lane: 4; (i.e. 508.0 lane km); Project Cost: INR 508.23 Crores; (PPP Project)*** *(input more than one year)*  **Name of Assignment: Construction Supervision for Four Laning of Jetpur Gondal Rajkot and Rajkot Bypass NH-8B from km 117.0 to km 143.0 & 175.0 to km 184.78 in the state of Gujarat. Project Length: 35.78 km; Lane:4; Project Cost:INR 265.7 Crores; Client: National Highways Authority of India.**  **Main project features: *Project Length: 35.78 km; Lane:4; (i.e. 143.12 lane km); Project Cost: INR 265.7 Crores; (PPP Project)***  **Position held: Executive Engineer/** **Senior Pavement Expert (Similar Capacity)**  **Month and Year:** Apr 2008 to Mar 2013; **Location:** Gujarat; **Client:** NHAI  **Activities Performed:** Responsible for **planning and execution of work**, execution of Flexible pavement, Earthwork, Sub-Base, WMM, DBM, BC, cross-drainage, kerb casting, etc. **Periodically monitoring the performance of the pavement and ensure life cycle cost effectiveness**. Responsible for ensuring complete adherence to construction / maintenance standards during execution period. **Continuously interacting with the Contractor/Concessionaire, to ensure life cycle cost effectiveness and viable design of pavement. Review appropriate rehabilitation / strengthening measures of the pavement which is significantly distressed**. **Review and approve mix designs, pavement design, maintenance, workmanship of pavement laying and check compliance as per international ‘Best Practices’ and codal provisions**. Responsible for Safety Management during construction, project management, surveying and layout, planning and scheduling of construction activity, coordination with the client as well as maintaining proper workmanship at site, preparing working drawings and any alternative or outstanding design elements, construction supervision monitoring work progress and preparation of reports, measurement & invoices, assuring quality control for earthwork, WBM work, bituminous work, culverts and major/minor bridges; **Also used Non-Traditional & Innovative technology for Pavement construction. Having thorough Knowledge and understanding of international ‘Best practice’ in the field of design, construction and maintenance of flexible type of pavement including latest codal stipulations and specifications.** Routine/Periodic **inspection of Project Highway** and supervision of construction/O&M works. **Encourage best methods of working and monitoring the quality and quantity of the work to achieve the planned progress**. | | | | | | |
| **Name of Assignment: Project Preparation and Construction Supervision of State roads in the State of Rajasthan.**  **Month and Year:** Apr 2007 to Apr 2008; **Location:** Rajasthan; **Client:** PWD Rajasthan  **Main project features: *Project Length: 20 km; Lane: 2; Project Cost: 2 Crores;***  **Position held: Assistant Engineer**  **Activities Performed: Preparation of detailed Estimates, Tender Papers, Supervision of work as per contract drawings & specifications,** **supervision of earthwork, Sub Grade, Sub Base and bituminous work, drain work;** Duties included conducting field quality control tests in accordance with IRC standards. Responsible for verification of lines and levels, inspection of works, checking of mix designs of concrete for bridges and culverts, checking of shuttering works, staging, reinforcements according to the drawings, and check slump test at the time of concreting, laying, compaction of concrete, including curing operations. | | | | | | |
| **Name of Assignment: Construction Supervision for Four lanning of ABP-3 package-3 of Allahabad bypass in the State of Gujarat.**  **Month and Year:** Aug 2001 to Mar 2007; **Location:** Gujarat; **Client:** National Highways Authority of India  **Main project features: *Project Length: 44.70 km; Lane: 4; (i.e. 178.8 lane km); Project Cost: INR 505.27 Crores***  **Position held: Assistant Engineer**  **Activities Performed:** Responsible for **Construction supervision of roads (both Flexible and Rigid Pavements), implementation of the works in field with International standards of quality, safety, economy and efficiency, monitoring of physical and financial progress of works, repairs and rehabilitation by widening strengthening of the existing roads.** Administration, Planning, Supervision of Construction, Controlling progress of works. **Preparation of quality assurance program** and their implementation for various projects; checking and approving as-built drawings, **quality control during various phases of the project including that for all pavement layers;** review and approve contractor’s works program, construction methods and scheme for the mobilization and deployment of plant, equipment and machinery; interpretation of provisions in the Contract documents and technical specifications, etc. **Maintenance of existing pavement; and traffic diversion plan for allowing traffic with comfort, convenience and safety.** | | | | | | |
| **Name of Assignment: Construction Supervision of NH-15 Pokhran-Jaisalmer section in the State of Rajasthan.**  **Month and Year:** May 1999 to Aug 2001; **Location:** Rajasthan; **Client:** Public Works Department, Rajasthan (NH Sub Division)  **Main project features: *Project Length: 100.0; Lane: 2; (i.e. 200 lane km); Project Cost: INR 10.0 Crores;***  **Position held: Assistant Engineer**  **Activities Performed:** Responsible for **Construction supervision of roads (both Flexible and Rigid Pavements), implementation of the works in field with international standards of quality, safety, economy and efficiency, monitoring of physical and financial progress of works, repairs and rehabilitation by widening strengthening of the existing roads.** Administration, Planning, Supervision of Construction, Controlling progress of works. **Preparation of quality assurance program** and their implementation for various projects; checking and approving as-built drawings, **quality control during various phases of the project including that for all pavement layers;** review and approve contractor’s works program, construction methods and scheme for the mobilization and deployment of plant, equipment and machinery; interpretation of provisions in the Contract documents and technical specifications, etc. **Maintenance of existing pavement; and traffic diversion plan for allowing traffic with comfort, convenience and safety.** | | | | | | |
| **Name of Assignment: Construction of Gas Based thermal power plant of 35 MW capacity & construction of colony roads.**  **Month and Year:** July 1994 to Apr 1999; **Location:** Rajasthan; **Client:** R.S.B.C.C  **Main project features: *Gas Based thermal power plant of 35 MW capacity;***  **Position held: Assistant Resident Engineer**  **Activities Performed:** Construction of Gas Based thermal power plant of 35 MW capacity & construction of colony roads | | | | | | |
| **Name of Assignment: Construction Supervision of NH-15 Bikaner-Jaisalmer Barmer section in the State of Rajasthan.**  **Month and Year:** Aug 1989 to June 1994; **Location:** Rajasthan; **Client:** Public Works Department, Rajasthan NH Sub Division  **Main project features: *Project Length: 120.0; Project Cost: INR 12.0 Crores;***  **Position held: Assistant Engineer**  **Activities Performed:** Responsible for the supervising layouts, setting out of improvements of horizontal and vertical alignments, widening as per contract drawings & specifications, supervision of earthwork, Sub Grade, Sub Base and bituminous work, drain work and s construction supervision. Duties included conducting field quality control tests in accordance with IRC standards. Responsible for verification of lines and levels, inspection of works, checking of mix designs of concrete for bridges and culverts, checking of shuttering works, staging, reinforcements according to the drawings, and check slump test at the time of concreting, laying, compaction of concrete, including curing operations. | | | | | | |
| **Name of Assignment: Construction of Navodaya Vidyalaya at Kuchaman city, Distt-Nagaur Rajasthan**  **Month and Year:** Feb 1988 to July 1989; **Location:** Rajasthan; **Client:** R.S.B.C.C  **Main project features: *Construction of Navodaya Vidyalaya:***  **Position held: Assistant Resident Engineer**  **Activities Performed:** Responsible for quality control of the Project, developed a system and procedure for the implementation of quality control plan, establishment of laboratories, ensuring adequately equipped and capable of performing all specified tests as per specifications/ agreement, calibration of equipment’s. | | | | | | |
| **Name of Assignment: Modernisation of Sugar Mills, Constructed Boiler House, Power House, Coal Handling plant etc.**  **Month and Year:** May 1981 to Feb 1988; **Location:** Rajasthan; **Client:** R.S.B.C.C.  **Main project features: *Modernisation of Sugar Mills, Constructed Boiler House, Power House, Coal Handling plant;***  **Position held: Junior Engineer**  **Activities Performed:** Modernisation of Sugar Mills, Constructed Boiler House, Power House, Coal Handling plant etc. | | | | | | |
| **Name of Assignment: Construction of 1 Lacs ltr capacity dairy plant including refrigeration butter making, ghee making, powder plant & boiler house.**  **Month and Year:** May 1981 to Feb 1988; **Location:** Rajasthan; **Client:** R.S.B.C.C  **Main project features: *1 Lacs ltr capacity dairy plant including refrigeration butter making***  **Position held: Junior Engineer**  **Activities Performed:** Construction of 1 Lacs ltr capacity dairy plant including refrigeration butter making, ghee making, powder plant & boiler house. | | | | | | |
| **Name of Assignment: Involved in the Design of Multistoried framed structure.**  **Month and Year:** Apr 1980 to Apr 1981; **Location:** Rajasthan; **Client:** Public Works Department, Rajasthan  **Position held: Junior Engineer**  **Activities Performed:** Involved in the Design of Multistoried framed structure. | | | | | | |
| **Certification :**  I, the undersigned, certify to the best of my knowledge and belief that   1. This CV correctly describes my qualifications and experience; 2. I am not a current employee of the Executing or the Implementing Agency; 3. In the absence of medical incapacity, I will undertake this assignment for the duration and in terms of the inputs specified for me in Form TECH-6 provided team mobilization takes place within the validity of this proposal; 4. I was not part of the team who wrote the terms of reference for this consulting services assignment; 5. I do not have conflict of interest in accordance with ITC 3.0; 6. I am not subject to any national or international sanctions, temporary suspension or debarment by ADB or other multilateral development banks (MDB); 7. I certify that I have been informed by the firm that it is including my CV in the Proposal for the **“Consultancy Services of Authority's Engineer for supervision of packages on EPC Mode Authority Engineer Package AE-5.”**. I confirm that I will be available to carry out the assignment for which my CV has been submitted in accordance with the implementation arrangements and schedule set out in the Proposal. 8. I have not been found guilty or convicted of any violation of law that is not a minor traffic violation. 9. I can accept payments through the international banking system or otherwise discharge ADB’s obligation upon initiation of wire transfer. 10. I understand that it is my obligation to notify the Client and ADB should I become subject to any national or international sanction, including becoming ineligible to work with ADB or other MDBs, cannot accept payments through the international banking system, should integrity issues including conflict of interest arise and/or should we or the proposed consultant be convicted of an offence excluding 11. I, as the authorized representative of the firm submitting this Proposal for the **“Consultancy Services of Authority's Engineer for supervision of packages on EPC Mode Authority Engineer Package AE-5)”**, certify that I have obtained the consent of the named expert to submit his/her CV, and that s/he will be available to carry out the assignment in accordance with the implementation arrangements and schedule set out in the Proposal, and confirm his/her compliance with paras (i) to (v) above.   *I understand that any wilful misstatement described herein may lead to my disqualification or dismissal, if engaged.*    ***[Signature of expert or authorized representative of the firm] Date: 27/08/2024***  ***Full Name of Authorised Representative: Dharmendra Kumar Mishra Day/Month/Year*** | | | | | | |



