

Position Title &	:	Team Leader/Senior Highway Engineer
Name of Firm	:	
Name of Expert	:	Syed Mahaboob Basha

Date of Birth : July 04, 1967

Country of : India

Citizenship/Residence

Educational • **MBA in Construction Management**, Indian School of Business Management, Bombay, India, 2014.

• **MTech in Structural Engineering**, Manav Bharati University, Himachal Pradesh, India, 2013.

• **B.E. in Civil Engineering**, St. Aloysius International University, India, 1999.

• **Diploma in Civil Engineering**, Technical Education and Training, Proddatur, Andhra Pradesh, India, 1987.

TRAININGS ATTENDED:

- Attended Training on Project Management using Oracle Primavera P6, Jeddeh, KSA.
- Attended Training on Project Management Workshop (PMI Approach) Jeddeh, KSA.
- Attended Training on Environmental, Safety, Health and Risk Program Supervisor in Accident Reduction Techniques in KSA.

EMPLOYMENT RECORD RELEVANT TO ASSIGNMENT:

Period	Employing Organisation, Title/Position & References	Country	Summary of Activities Performed Relevant to the Assignment
03/August/2021	13/Feb/2023	India	<p>Climate-Resilient Reconstruction after Flooding in Kerala, Consulting Services for Construction Supervision.</p> <p>The consulting firm employed by the Employer will appoint an individual to exercise the authority of the Engineer. The Team Leader/The Engineer will reside at a close location from the work sites on a full-time basis throughout the period of the Services. He will be overall in-charge of the Project Supervision Team. He shall be responsible for the overall implementation activities. He shall be assisted by Key Professionals and other support Staff. He shall coordinate with the Subordinate Team to ensure that the construction process is well controlled as per established Procedures. He will interact with the client. The Duties and Responsibilities are also described in the Contract Document for Construction Works.</p> <p>Employer: Project Management Team, Kerala State Transport Project length :173.90km</p> <p>The works involve improving existing State Highways and Major District Roads including geometric improvements but without realignments to standard 2-lane of various carriageway widths. The Construction Works include, but are not limited to:</p> <ul style="list-style-type: none"> - Scarification, clearance, earthworks. - New culverts, new bridges and rehabilitation of existing bridges/culverts and protective works. - Retaining walls. - Slope protections and stabilization in hilly districts. - Locally, raised embankment. - Sub-base, base course, wearing course, rigid pavement in areas prone to flooding (concrete pavement). - Side drains. - Sidewalks. - Road markings. - Road furniture such as bus shelters. - Street lighting. - Traffic management and environmental protection/mitigation measures.

			<ul style="list-style-type: none"> - Construction and maintenance of diversion roads. - Environmental and Social enhancement works/ landscaping etc., works. - Routine maintenance and maintenance during Defects Notification Period plus four years after the end of the DNP <ol style="list-style-type: none"> a) Prepare, in consultation with the Employer and in accordance with the directives of the PMC and the template provided by the Employer/PMC, a Construction Supervision Manual outlining routines and procedures to be applied in contract management, construction supervision, project cost control, quality control and monitoring and administration. b) Prepare a Maintenance Manual outlining the routines to be adopted, including cross-drainage works and bridges. c) The Financial progress reports generated by the Consultant shall be interfaced with Management Systems of the client, if any. d) Assist the Employer in providing replies to observations made in respect of works, from time to time, by the Auditor General, Government of India. e) Assist the client during Dispute Board Meetings, Arbitration Proceedings and any other hearings held by statutory and legal body. f) Ensure effective coordination with the railway supervising staff during construction of ROBs/RUBs, if any and advise the client regarding status of ROB/RUB construction. g) The Engineer shall prepare and submit the periodic progress reports and other reports as stated in Paragraph 11 of the ToR. h) Impart training including field visits to the on-going works under Consultant's supervision to the Employer's Technical Personnel (about 20 persons) for at least two-week duration covering all relevant topics pertaining to road works. The training module shall be finalized in consultation with the Employer.
15/Dec/2020	30/July/2021	Afghanistan	<p>Ministry of Public Works (MoPW) Islamic Republic of Afghanistan ('the Client') for providing the CONSULTING SERVICES FOR CONSTRUCTION SUPERVISION OF THE CONSTRUCTION QAISAR -LAMAM ROAD PROJECT (82 KM QAISAR -LAMAM SECTION I AND II) ('the Project'). The consultant is being engaged in capacity of Team Leader/Senior Highway Engineer. The consultant</p> <p>The scope of Services are as follows:</p> <ol style="list-style-type: none"> (i) Overall project management, reporting to the EA and ADB, coordinating with local communities and other stakeholders in the project area and, with the Ministry of Interior (MOI) and international and Contractor security forces on security issues. (ii) Act as the Engineer in administering the civil works Contracts. Advise the EA, as the Employer, on all matters concerning implementation of the Contracts including, but not limited to – the progress of the civil

works (the Works) and issues arising, certification of the Works, variations to the Works and the Contractor's Contracts, the settlement of disputes and, arbitration or litigation if required.

- (iii) Monitor, inspect and certify the temporary and permanent Works ensuring they are constructed in accordance with the provisions of the Contracts, including the Contractor's approved Quality Assurance Plan, Health and Safety Plans, Environmental Management Plan (EMP) and Method Statements.
- (iv) Assist the EA to implement the approved Project Land Acquisition and Resettlement Plan (LARP).
- (v) Design and implement a Project Performance Management System (PPMS).
- (vi) Coordinate the development of the final Security Plans (the Security Plan) for the three Contracts and supervise their implementation.

8. Contract Administration:

- (i) Under the Contracts, the EA will be the Employer and the Consultant will act as the Engineer. The Consultant will oversee construction and ensure that the Works are undertaken in accordance with the provision of the Contracts. The Consultant will nominate an engineer's representative who will be a full-time resident on the Project.
- (ii) The Consultant will also carry out the following activities on the civil works Contracts:
 - a) Inspect the Contractor's construction equipment, results of material and soil tests, safety of the works, property and personnel;
 - b) Check, update, and verify construction specifications before commencement of construction works.
 - c) Inspect and test all materials and works to ensure compliance with specifications and giving immediate notice to the Contractors in the event that such materials and works fail to comply with the specifications;

- d) Verify the Contractors performance and report progress and problems in a timely manner, including quality control reports, quantity survey records, requests for variation or change orders, requests for time extension, and Contractor's claims and invoices;
- e) Undertake supervision of the Works; prepare and issue the following reports, whose format and content should be acceptable to the Employer and ADB: (1) an inception report, a brief monthly progress report, a detailed quarterly report, and (2) a detailed project completion report (PCR);
- f) Review and verify any proposed change orders by the Contractors and make recommendations to the Employer and ADB;
- g) Check that "as built" drawings are prepared by the Contractors for the Works as construction processes;
- h) Certify work volume and process interim and final payments of the Contractors for Works, security and other aspects of their Contracts;
- i) Prepare and issue the Taking-Over Certificates (or partial certificates) including lists of defects to be rectified in accordance with the Contracts;
- j) Provide inspection services during Defects Notification Period and upon rectification of all defects issue the Performance Certificate (or certificates) and the Final Payment Certificate(s) in accordance with the Contracts;
- k) Ensure that the construction methods proposed by the Contractors for carrying out the works are satisfactory, with particular references to the technical requirements of sound environmental standards on the basis of ADB's *Environmental Guidelines for Selected Infrastructure Development Project (Highway and Roads)*; inspection of Contractors construction equipment;

			<p>safety of the works, property, personnel, and general public; and the recommendations of the environmental management plan (EMP);</p> <ul style="list-style-type: none"> l) Supervise and monitor the implementation of any environmental mitigation measures required and in the event of occurrence of any unexpected environmental impacts, coordinate with the Contractors to provide mitigation measures; m) Review the LARP and update as necessary and assist the EA with implementation ensuring compliance with the ADB's <i>Policy on Involuntary Resettlement</i>. n) Ensure minimum disruption to local settlements by approving the Contractors work programme, including monitoring the impacts of construction work on local settlements, and reporting impact monitoring to the Employer; o) Ensure that no child labor is used for execution of the Works contract as required by the Contracts; p) Monitor the implementation of the health and safety program at camp sites including the information and education campaign on sexually-transmitted diseases and HIV/AIDS (human immunodeficiency virus/acquired immunodeficiency syndrome) as required by the Contracts; q) Ensure that road safety requirements are implemented during the execution of the Works in accordance with the requirements in the Contracts; and r) Prepare a Project Completion Report (PCR) for each of the civil works Contracts after physical project completion. <p>9. The Consultant will establish a Project Performance Monitoring System (PPMS) for each of</p>
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			<p>the civil works Contracts in accordance with the project framework to carry out the following activities:</p> <ul style="list-style-type: none"> (i) Identify performance indicators to be monitored during the implementation of the Project including poverty, socioeconomic status, gender development, employment-generation among others to refugees and ex-combatants, and other social and economic development activities; (ii) Establish systems for collecting data and statistics for monitoring; (iii) Carry out a baseline survey on performance indicators; (iv) Collect required data and undertake other relevant surveys before construction and immediately after completion of the Project; and (v) Incorporate findings and supporting data in the PCR in accordance with a schedule and terms of reference to be mutually agreed by the Government and ADB. <p>10. The Consultant will obtain the prior approval of the EA and ADB for the following matters as specified in the civil works Contracts:</p> <ul style="list-style-type: none"> (i) Approval of subletting of any part of works; (ii) Certification of additional costs; (iii) Determination of extensions of time; (iv) Endorsement of contract change orders; (v) Fixing of rates or prices for new items; and <p>Approval of the Contractors Security Plans</p>
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09/2019
– August
2020

Team Leader
Rodric Consultants
Ltd.
Reference: H.
Arora,
hcarora55@gmail.
com

India

Review all available data, reports and documents; reconnaissance survey, geotechnical engineering design for bridges in planning, design and execution of roads on reclamations, bridges; coordinate and oversee the project works of various key personnel; preparation of QAP for all field, design and documentation activities; checking topographical surveys including material, pavement and geological data analysis and finalization of design standards and codes of practices; identification of possible improvements in the existing road alignment and identification of available options and selection of rehabilitation and construction alternatives based on techno-economic considerations; finalization of detailed engineering design for highways using computer aided design tools V12. MOSS &

01/2018 - 08/2019	Team Leader Rodric Consultants Ltd. References: Dev Raj, 9501544882, dev.raj@rodriccons ultants.com	India	AutoCAD; preparation of bid documents and technical specifications of work; preparation of work program, construction manual, developed a suitable PMS and MIS; establish QAM; and construction supervision and contract administration of works utilizing modern project management. Reviewed all available data, reports and documents; reconnaissance survey, geotechnical engineering design for bridges in planning, design and execution of roads on reclamations, reclamations; coordinated and oversaw the project works of various key personnel; preparation of QAP for all field, design and documentation activities; checked topographical surveys; material, pavement and geological data analysis and finalization of design standards and codes of practices; identified possible improvements in the existing road alignment and identified available options and selected rehabilitation and construction alternatives based on techno-economic considerations; finalized detailed engineering design for highways using computer aided design tools viz. MOSS & AutoCAD; prepared bid documents and technical specifications of work; prepared work program, construction manual, developed a suitable PMS and MIS, established QAS, construction supervision and contract administration of works utilizing modern project management methods, viz. CPM and PERT; assisted ERA in reviewing contractor's performances bound retention bond & bank guarantee for advance payment and other guarantees if any; and highway Construction length of 45.143 Km with 2 No's of Major Bridge, 6 Nos. of Minor Bridges 3 Nos. of VUP ,3 Nos. of VOP & 1 No. of ROB including Major & minor junction works and utility and drainage works as per NHAI standards.
10/2015 - 12/2017	Team Leader M/s. Parsons Ltd. References: Eng. Amjad, Mohammed, 0966508301319, amjad.mohamed@ parsons.com	Saudi Arabia	Reviewed all available data, reports and documents, reconnaissance survey; coordinated and oversaw the project works of various key personnel; preparation of QAP for all field, design and documentation activities, checked topographical surveys, material, pavement and geological data analysis and finalization of design standards and codes of practices; identified possible improvements in the existing road rehabilitation and construction alternatives based on techno-economic considerations; finalized detailed engineering design for highways using computer aided design tools viz. MOSS & AutoCAD; prepared bid documents and technical specifications of work; prepared work program, construction manual, developed a suitable PMS and MIS, established QAS, Construction Supervision and contract administration of works utilizing Modern Project Management Methods, viz. CPM and PERT; ensured full quality control, quality assurance systematic inspection and testing of materials, maintenance of records; monitored physical and financial progress of

07/2013 - **Team Leader**
10/2015 M/s. Parsons Ltd
References: Jihad
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jihadm@hotmail.com

Qatar

works to ensure their completion with time schedule and earmarked cost; ensured that the environmental and social aspects were taken into consideration during the execution of the project, preparation and submission of the interim payment certificates, invoices, claims, and other statements and monitor the payment process; imparted training to the engineers deputed by the employer, operation of contract as per FIDIC conditions of contract provide coordination with other agencies to prevent delay for execution of the project and represent in dispute review board and arbitration hearings and prepare various reports; assisted ERA in reviewing Contractor's performances bound, retention bond & bank, Guarantee for advance payment and other guarantees if any.

During Design Phase: Reviewed all available data, reports and documents, reconnaissance survey; coordinated and oversaw the project works of various key personnel, prepared quality assurance plan (QAP) for all field, design and documentation activities, checked topographical surveys including material, pavement and geological data analysis and finalization of design standards and codes of practices; identified possible improvements in the existing road alignment and identified available options and selection of rehabilitation and construction alternatives based on techno-economic considerations; finalized detailed engineering design for highways using computer aided design tools viz. MOSS and AutoCAD; and prepared bid documents and technical specifications of Work.

During Construction Supervision: Prepared work program, construction manual; developed a suitable project management system and management information system (MIS); established Quality Assurance System; construction supervision and contract administration of works utilizing modern project management methods, viz, CPM and PERT; ensured full quality control, quality assurance, systematic inspection and testing of materials, maintenance of records; monitored physical and financial progress of works to ensure their completion within time schedule and earmarked cost; ensured that the environmental and social aspects were taken into consideration during the execution of the project; prepared and submitted interim payment certificates, invoices, claims and other statements and monitored the payment process; imparted training to engineers deputed by the employer, operation of contract as per the FIDIC conditions of contract; and provided coordination with other agencies to prevent delay in execution of the project and represented in the disputes review board and arbitration hearings and prepared various reports.

03/2012 - 06/2013	Team leader Cum Senior Highway Engineer M/s SNC-Lavalin Infrastructure Pvt Ltd References: Corporate office, +6626863732, snc.lavlin@info.co m	India	Prepared and submitted interim payment certificates, invoices, claims and other statements and monitored the payment process; imparted training to engineers deputed by the employer; operation of contract as per the FIDIC conditions of contract; provided co-ordination with other agencies to prevent delay in execution of the project and represented in the disputes review board and arbitration hearings; and prepared various reports including detailed working drawings, detailed cost estimates, economic and financial viability analysis, environmental and social feasibility, social
12/2010 - 02/2012	Resident Engineer M/s Feedback Infra Pvt Ltd References: HR Department, +911244169100, inquiries@feedbac kinfra.com	India	Approved and reviewed construction work program methodology; ensuring proper traffic management measures and safety norms, issued working drawings, approved mix designs of concrete and bitumen courses submitted by EPC contractor, monitored and checked day to day quality control of works; prepared interim certificate for monthly payments; was responsible for team coordination, organizing, assigning duties and checking the performances of the team; and arranged regular meetings between the Contractor's client and supplier.
08/2009 - 12/2010	Project Manager M/s Navayuga Engineering Company Ltd. References: Maniratnam, +818023633023, necbro@gmai.co m	India	Design review and made changes therein in the light of the field conditions with the approval of the concerned authority; identified soil and other construction materials ensured that the testing of the soil and other construction materials, analysis and interpretation of their results were properly done in order to assess the suitability of their quality for use on this important project; preparation of QAS and its implementation, finalized the setting out of works, and method statement, reviewed all bituminous and cement concrete mix designs, methods of laying pavement layers, sampling and testing procedure to ensure the required standard and consistency; executed earth work, sub-grade and laid of Wet Mix Macadam and the top layer of Bituminous concrete, also executed seven structural works falling in this Project; executed project management and contract management under FIDIC Conditions of contract; liaised with and assisted the Client (ERA) and regional officials as required; and participated in the design review process and prepared proposals for the client's approval.
06/2007 - 06/2009	Project Manager M/s ETA - ASCON Group References: Rafatullah khan, 0971505929786, rafat@EtaAscon.c om	UAE	Organized field investigation, collected data through various surveys like material survey, sub-soil investigations to decide type of foundation to be adopted in designing, fixing alignment, grade; supervised all activities of field survey, compilation and analysis of data leading to preparation of DPR, detailed design of pavement, drafting specifications for various items of preparing bid documents, evaluation of tenders, allocation of works, advising in selection of preferred bidders etc.; reviewed contractors work

03/2006 - 05/2007	Project Manager M/s Paramitha Constructions Private Limited References: HR Department, 04023542654	India	program, method statements, material sources, EMP; approved materials and sources of materials; and reviewed all asphalts mix designs and concrete mix designs proposed by the contractor. Organized field investigation, collected data through various surveys like material survey, sub-soil investigations to decide type of foundation to be adopted in design, fixing alignment, grade; supervised all activities of field survey, compiled and analysed data leading to preparation of DPR, detailed design of pavement, drafting specifications for various items of preparing bid documents, evaluation of tenders, allocation of works, advising in selection of preferred bidders etc.; liaised with and assisted the Client (ERA) and regional officials as required; and participated in the design review process and prepared proposals for the client's approval.
09/2003 - 03/2006	Project Manager M/s KNR Construction References: Venkateswarlu, 8310768089, info@knrcl.com	India	Organized field investigation, collected data through various surveys like material survey, sub-soil investigations to decide type of foundation to be adapted in designing, fixing alignment, grade; supervised all activities of field surveys, compiled and analysed data leading to preparation of DPR, detailed design of pavement, drafting specifications for various items of preparing bid documents, evaluation of tenders, allocation of works, advising in selection of preferred bidders etc.; reviewed contractors work program, method statements, material sources reviewing, EMP; approved materials and sources of materials; reviewed all asphalts mix designs and concrete mix designs proposed by the contractor executed under FIDIC Conditions of contract; liaised with and assisted the Client (ERA) and regional officials as required; participated in the design review process and prepared proposals for the client's approval in coordination with the site supervisory staff; and provided on Job-Training to employers personnel.
09/1999 - 08/2003	Sr. Highway Engineer M/s Patel Engineering Company Ltd. References: HO office, 2652777778, ho@patelinfra.com	India	Reviewed all available data, reports and documents; reconnaissance survey, assistance in quality assurance plan (QAP), checked topographical surveys, material, pavement and geological data analysis and finalization of design standards and codes of practices; identified possible improvements in the existing road alignment and available option and selection of rehabilitation and construction alternatives based on techno-economic considerations; finalized detailed engineering design for highways using computer aided design; prepared bid documents and technical specification of work; reviewed the design and working drawings and getting done necessary modification; and ensured execution of works site as per specifications and standards and report on the contractor's financial and time extension claims.

01/1990 - 03/1994	Highway Engineer PBA Infrastructure Ltd. References: Chembur, +912261277200, pnamumbai@gmail.com	India	Modified the DPR drawings to prepare working drawings ; Was responsible for sample collection and getting tested in the laboratory for their suitability, construction of GSB, WMM, DBM AND BC layers; monitored the crushing plant & hot mix plant and their maintenance and calibration; implemented approved construction methods and standard of workmanship to get better quality; assisted the project manager in preparation of RA bills and revised BOQ etc.; and was also involved in planning and scheduling of works, quality control/ quality assurance.
10/1988 - 01/1990	Site Engineer PBA Infrastructure Ltd References: Chembur, +912261277200, pnamumbai@gmail.com	J & K India	Assisted the Project manager in preparation of RA bills and revised BOQ etc.; was also involved in planning and scheduling of works, quality control/ quality assurance as per the MORT&H specifications, site supervision and preparation of quality reports etc.; was responsible for sample collection and getting tested in the laboratory for their suitability, construction of GSB, WMM, DBM AND BC layers; monitored the crushing plant & hot mix plant and their maintenance and calibration; and implemented approved construction methods and standard of workmanship to get better quality.

MEMBERSHIP IN PROFESSIONAL ASSOCIATIONS:

- Life member IRC Indian Roads Congress, New Delhi, India.

Language Skills : English, Hindi and Telugu

ADEQUACY FOR THE ASSIGNMENT:

Detailed Tasks Assigned on Consultant's Team of Experts

i) Administer and supervise the temporary and permanent works in accordance with the provisions of the Contract; including: a) Ensure that the Notice to commence has been issued; b) review and agree with the Employer the Contractors' work programs and subsequently monitoring the construction progress in accordance with Contract requirements; c) ensure that the Contractor is granted possession of site in accordance with the agreed programs or otherwise providing advance notice to the EA of possible delays due to lack of possession; d) review all surveys, field investigations, designs, drawings and specifications, recommending any changes needed to provide more cost-effective solutions, and approving the design, drawings and changes in the specification; e) maintain close liaison with the EA and other relevant agencies including the police, other government and regional authorities and, local stakeholders; f) measure the Works agreeing and certifying interim and final payment certificates for submission to the EA, and assisting the EA in preparing withdrawal documentation to ADB; g) assess and, where appropriate, make recommendations on applications for extension of time, claims for additional payment and other contractual disputes issuing site instructions, variation orders, provisional sum orders and day works orders, as appropriate; h) monitor the Contractor's laboratory testing and carrying out Independent testing as required; i) check and approve the Contractor's working and "as built" drawings; j) prepare a final report for the Contract, which will be a compilation and condensation of data presented in regular monthly and quarterly progress reports, together with copies of "as built" drawings within three months of the issue of the Defects Liability Certificate(s); k) develop training programs for EA staff and provide on-the-job training on construction supervision including contract administration, quality control, monitoring and evaluation, environmental monitoring and the project performance monitoring system; l) assist the EA to update and implementation the LARP including reporting; m) prepare and implement the PPMS in consultation with ADB and the EA; n) ensure that the construction methods as proposed by the Contractor comply with the requirements of the approved EMP, including implementation of the Environmental Monitoring Plan; o) monitor the implementation of the health and safety program at camp site with the including the information and education campaign on

sexually-transmitted diseases including human immunodeficiency virus/acquired immunodeficiency syndrome (HIV/AIDS) as required by the Contract; p) ensure that no child labour is employed under the Contract; q) assess and design for approval by the EA and ADB the Community Outreach Program and supervise implementation by the Contractor; r) coordinate the preparation, approval by the EA and ADB of the Project Security Plan and supervise implementation by the Contractor; s) prepare and implement the Consultant Security Plan; t) prepare monthly progress reports, in a form agreed with the EA and ADB and submit these within 10 days of the end of the month to which they refer; u) prepare quarterly progress reports, in a form agreed with the EA and ADB and submit these within 1 month of the end of the reporting period; these report are to cover physical progress, financial progress, loan withdrawal, compliance with the environmental mitigation requirements, results of the project performance monitoring system and result of other environmental monitoring;

(ii) Advise the EA on all matters concerning implementation of the Contracts including quality control, work progress, implementation issues, and arbitration or litigation etc.

Reference to Prior Work/Assignment that Best Illustrates Capability to Handle the Assigned Tasks

KEY QUALIFICATIONS:

Syed, a Member of Indian Road Congress, holds M.B.A. in Construction Management, M. Tech. in Structural Engineering with and B.E. in Civil Engineering. Has acquired more than 30 years of experience on working construction supervision of roads, highways and bridge projects funded by the World Bank, and other prestigious clients. He has impeccable understanding of managing multi-disciplinary and multinational teams and has managed large scale consulting projects of construction supervision of roads with hands-on experience on maintaining records, advising day to day coordination of works, supervising and certifying construction in accordance with the contract conditions, report writing, etc. He is currently managing a world bank funded project 'Upgradation/Rehabilitation of Works Contracts for Mehsana-Sidhpur, Sidhpur-Palanpur, Mehsana Bypass & Radhanpur Chanasma on EPC Mode under GHSP-II' and leading a multi-disciplinary team and is responsible to ensure that the construction process is well controlled as per established procedures. His international experience includes working on various projects in Saudi Arabia, Qatar, India and UAE. He is fluent in speaking, reading, and writing the English language.

Some of the projects led by him are as follows:

- **Team Leader:** Detailed Engineering Design, Construction Supervision and Maintenance of 6 Laning of Motorway Section from Jeddah to Jazan in Saudi Arabia, Jeddah Municipality Authority, 10/2015 - 12/2017.
- **Team Leader:** Detailed Engineering Design and Construction Supervision of 10 lanes Motorway Section of East Corridor P011 under Doha Expressway Programme on EPC Mode Managing Project Works, ASHGHAL-Public Works Authority, Qatar, 07/2013 - 10/2015.
- **Team Leader:** Upgradation/ Rehabilitation of Works Contracts for Mehsana-Sidhpur, Sidhpur-Palanpur, Mehsana Bypass & Radhanpur Chanasma on EPC Mode under GHSP-II for Roads & Building, Govt of Gujarat, India funded by the World Bank, 09/2019 - till date.
- **Team Leader:** Consultancy Services for Authority's Engineer for Supervision of Package-I: Four Lanning of Hassan (Existing Km 189+700, Design Chainage 184+912) to Maranahally (Existing km 237+000, Design Chainage 230+060) Section of NH 75 (Old NH No. 48) under EPC Mode in the State of Karnataka, NHAI, India, 01/2018 - 08/2019.
- **Team Leader Cum Senior Highway Engineer:** Consultancy Services for Preparation of Detailed Project Report for Widening and Improvement of 6 Laning of Madhya Kailash to Siruseri and Siruseri to Mahabalipuram Highway Section under PPP Project on DBFO Pattern in the State of Tamil Nadu, TNRDC, 03/2012 - 06/2013.

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- **Resident Engineer:** Project Management Consultancy Services for Widening and Strengthening of 4 Laning of Nelamangala to Devihalli Section of NH-48 in the State of Karnataka on EPC Mode under FIDIC Conditions of Contract, Lanco Infratech Limited, India, 12/2010 - 02/2012.

RELEVANT PROJECTS:

Name of Assignment: The Team Leader/Senior Highway Engineer shall manage and coordinate the consulting team to ensure

the Project is implemented in accordance with the Contract including:

(i) Administer and supervise the temporary and permanent works in accordance with the provisions of the Contract; including:

- a) Ensure that the Notice to commence has been issued;
- b) Review and agree with the Employer the Contractors' work programs and subsequently monitoring the construction progress in accordance with Contract requirements;
- c) Ensure that the Contractor is granted possession of site in accordance with the agreed programs or otherwise providing advance notice to the EA of possible delays due to lack of possession;
- d) Review all surveys, field investigations, designs, drawings and specifications, recommending any changes needed to provide more cost-effective solutions, and approving the design, drawings and changes in the specification;

e) Maintain close liaison with the EA and other relevant agencies including the police, other government and regional authorities and, local stakeholders;

f) Measure the Works agreeing and certifying interim and final payment certificates for submission to the EA, and assisting the EA in preparing withdrawal documentation to ADB;

g) Assess and, where appropriate, make recommendations on applications for extension of time, claims for additional payment and other contractual disputes issuing site instructions, variation orders, provisional sum orders and day works orders, as appropriate;

h) Monitor the Contractor's laboratory testing and carrying out Independent testing as required;

i) Check and approve the Contractor's working and "as built" drawings;

j) Prepare a final report for the Contract, which will be a compilation and condensation of data presented in regular monthly and quarterly progress reports, together with copies of "as built" drawings within three months of the issue of the Defects Liability Certificate(s);

k) Develop training programs for EA staff and provide on-the-job training on construction supervision including contract administration, quality control, monitoring and evaluation, environmental monitoring and the project performance monitoring system;

l) Assist the EA to update and implementation the LARP including reporting;

m) Prepare and implement the PPMS in consultation with ADB and the EA;

n) Ensure that the construction methods as proposed by the Contractor comply with the requirements of the approved EMP, including implementation of the Environmental Monitoring Plan;

o) Monitor the implementation of the health and safety program at camp site with the including the information and education campaign on sexually-transmitted diseases including human immunodeficiency virus/acquired immunodeficiency syndrome (HIV/AIDS) as required by the Contract;

p) Ensure that no child labour is employed under the Contract;

q) Assess and design for approval by the EA and ADB the Community Outreach Program and supervise implementation by the Contractor;

r) Coordinate the preparation, approval by the EA and ADB of the Project Security Plan and supervise implementation by the Contractor;

s) Prepare and implement the Consultant Security Plan;

t) Prepare monthly progress reports, in a form agreed with the EA and ADB and submit these within 10 days of the end of the month to which they refer;

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- u) Prepare quarterly progress reports, in a form agreed with the EA and ADB and submit these within 1 month of the end of the reporting period; these reports are to cover physical progress, financial progress, loan withdrawal, compliance with the environmental mitigation requirements, results of the project performance monitoring system and result of other environmental monitoring;
- (ii) Advise the EA on all matters concerning implementation of the Contracts including quality control, work progress, implementation issues, and arbitration or litigation etc

Name of Assignment: The duties of the Engineer are to supervise the works and to approve the materials and workmanship of the works in cooperation and consultation with the Employer, as spelt out in the Construction Contract Documents for the works. As stated therein, the Engineer shall have no authority to relieve the Contractors of any of their duties or obligations under the contracts. The Engineer will administer the Works Contracts and ensure that the contractual clauses whether related to quantity or quality are respected.

The Consultant shall perform the Engineer's obligations as expressed in the FIDIC condition of contract (red book), the General and the Particular Conditions of Contract incorporated in the relevant Works Contracts. These conditions are provided in Annex 1 of the present ToR.

The duties of the Engineer include issuing of decisions, certificates and orders as specified in detail in the Construction Contract Documents. In case of any disparity, the stipulations made in the construction contract documents will prevail in the order of priority mentioned therein. The Engineer will coordinate with the supervision teams to ensure that the Technical Policies are correctly and consistently implemented on all the road sections.

The principal responsibilities of the Engineer will be, but not limited to, the following:

- a) Ensure that the construction works are in accordance with the Technical Specifications and the construction methods proposed by the Contractors are in compliance with the above stipulation particularly in relation to Contractors' construction equipment and other resource deployment.
- b) Without relieving the Contractors of their obligations under the Contracts, review and approve the traffic management and safety plan and ensure compliance with IRC SP 55 - 2014 and all other applicable safety regulations, before commencement of construction works at site.
- c) Without relieving the Contractors of their obligations under the Contracts, review and approve the work zone (including work site, plant site and Contractors' operated quarry locations), safety plan, PA-ESMP and ensure compliance.
- d) Closely coordinate with the Construction Safety Officers of the Contractors and Formulate site safety guidelines & prepare checklist for safety auditing by field supervision team on day-to-day basis. Daily safety inspections shall be carried-out by the Consultant throughout the construction period.
- e) Ensure adequacy of measures in Contractors' safety plan for the safety of pedestrians, 2-wheelers and slow moving traffic and ensure safety due to delineation of roadway at night. Verify design of temporary diversions, adequacy of warning signs at construction zones, ensure adequacy of safety devices for workers at construction zone/plant sites and proper maintenance of the devices. Recommend damages for non-conformity of traffic safety measures as per contract provisions.
- f) Mobilize the Team Leader about one month prior to commencement of works in order to monitor mobilization activities of the Contractors and set up contract administration systems as well as prepare plans for deployment of other key professional staff at the appropriate time to ensure optimized outputs.
- g) Assess the minimum construction equipment, plant and machinery requirements

- by type and specification. Monitor regularly to ensure the adequacy of deployment of the Contractors equipment, plant and machinery. Approve and monitor the Contractors' mobilization program.
- h) Approve Contractors' Work Program including activity scheduling and resource programming. Review and approve the updated program of the Contractors whenever there is shortfall of progress.
 - i) Review and approve the Contractors' design, calculation note and shop drawings.
 - j) Approve the deployment of Contractors' key personnel.
 - k) Carryout the requirement analysis and recommend to the Employer for issue of the Project Authority Certificates to the Contractors for availing customs/excise duty exemptions.
 - l) Ensure that the ESHS provisions are consistent with national requirements and international good practice standards, and put forward to Contractors, sub-Contractors, and to suppliers, in particular those for major supply items. Ensure that the Contractors takes all necessary steps to protect the environment on and off the site. Ensure compliance with environmental and social impact mitigation measures as specified in the respective Project Area Environmental and Social Management Plans (PA-ESMPs). Assist the Employer in coordinating with different agencies.
 - m) Participate in the OGL survey and setting out by the Contractors with prior intimation to the Employer's field engineer.
 - n) Approve construction materials and material sources. Review all granular base and sub-base courses job mixes, bituminous mix designs and concrete mix designs proposed by the Contractors. Approve/suggest modifications in the mix design.
 - o) Audit the Quality Assurance system of the contractors. Approve laying methods, sampling and testing procedure and Quality Control measures of the Contractors to ensure required standard and consistency in quality, at the commencement of that activity. Inspect and test all materials to ensure compliance with Technical Specifications of Construction Contract Document.
 - p) Without relieving the Contractors of their obligations under the Contract, check and approve the Contractors' working drawings, including the arrangements for false work / temporary works, as appropriate, prior to construction.
 - q) Report the necessity of any modifications/design changes and need for construction contract variation orders as early as possible to the Employer through the PMC with full information and reasons. The Engineer shall prepare the variation order for approval of the Employer, as stated in GCC of Contract Document for works.
 - r) Make independent measurements and check all quantity measurements and calculations required for payment purpose. Ensure that all measurements and calculations are carried out in a manner and at the frequencies specified in the contact documents. The field Engineers of the Employer is empowered to check any measurements, levels and quality tests.
 - s) Monitor the construction progress closely and whenever it is perceived that the completion date of contract is in jeopardy, define the necessary additional resources to be deployed to speed up the progress and direct Contractors to take all such necessary steps to maintain the rate of progress of works as per the approved program of the Contractors on monthly basis.
 - t) Record work site events daily in a work site logbook.
 - u) Oversee the sampling of materials to ensure conformity to the works specifications. Witness and approve regular tests of materials and of completed Works, and order additional tests if required. Review all test results and verify that they are in conformity with the contract.
 - v) Evaluate all claims and extensions of time submitted by the Contractors and make judicious recommendations to the Employer/PMC.
 - w) Review the monthly progress reports to be submitted by the Contractors in accordance with the contract document and bring out the shortcomings to the notice of the client.

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- x) Check and approve as-built drawings for the works prepared by Contractors. If the Contractors fails to submit the As-Built drawings prior to issuing a Taking over Certificate, the Engineer will prepare the same, as per the provisions in Construction Contract Document.
 - y) Inspect the works as necessary during the Defects Notification Period.
 - z) Certify for the release of outstanding balance of retention money to the Contractors after the DNP, as per the relevant clauses of construction contract document.
 - aa) Issue taking over certificate and performance certificate to the Contractors duly observing the stipulations in the construction contract document.
 - bb) Hand over to the Employer/PMC complete set of As-Built drawings (both hard copies and in electronic form), a complete set of records, reports, photographs of construction, reports and correspondences after the closure of consultancy services.
 - cc) Review, approve and monitor closely the implementation of the Contractors' Project Area Environmental and Social Management Plan (PA-ESMP) during construction and in the DNP. Including:
 - Approve after due revision Contractors' PA-ESMP and, during the execution of the works, instruct the Contractors to update the PA-ESMP if it becomes necessary.
 - Inform the Contractors that relevant sub-works shall not commence prior to the Engineer's approval and satisfaction of appropriate measures in place to address ESHS risks and impacts;
 - Establishment of Stakeholder Coordination Mechanisms (e.g. Steering Committee, Inter-sectoral coordination);
 - Instruct Contractors to include relevant PA-ESMP aspects in the Detailed Design and time-schedules;
 - Supervise the Contractors' implementation of the PA-ESMP and report on compliance of the Contractors with the ESMP and ESHS Works Requirements; This includes health and safety performance and conformance with labour and working condition standards in case of severe ESHS violations (and in particular OHS risks to life), the Consultant shall suspend (sub-)works until the Contractors has rectified the situation;
 - Document Contractors' non-conformances. Review and approve and follow-up on the Contractors' proposals for remedial action(s) and their timeframe for implementation.
 - Follow up on the results of any inspections or audits by PMC, labour, health and safety or environmental regulatory authorities;
 - Check if the Contractors provides instructions and trainings to workers, Sub-Contractors and Suppliers and that the Contractors complies with the Code of Conduct;
 - Review the Contractors' progress reports, and check if detected nonconformities are documented and analysed and are addressed by corrective actions;
 - Follow-up on the resolution of any complaints or grievances (workers and community) in relation to ESHS and in accordance with the Grievance Redressal Mechanism implemented;
 - Inform the Employer on any ESHS related situation that might arise which could jeopardize the successful completion of the Project.
 - Supervise that non-conformities are addressed through measures adapted to the severity of the situation and which include but are not limited to the suspension of (sub-works and/or of payments in accordance with the Contract.
 - Check supply chain regarding any shortcomings regarding ESHS standards.

Supervise that required ESHS permits are obtained and valid

Name of Assignment: Upgradation/Rehabilitation of Works Contracts for Mehsana-Sidhpur, Sidhpur-Palanpur, Mehsana Bypass & Radhanpur Chanasma on EPC Mode under GHSP-II; **Year:** 09/2019 – August 2020; **Location:** Gujarat, India; **Client:** Roads & Building, Govt

of Gujarat/ World Bank; **Main Project Features:** Lane: 4-6, Length: 126 Km; **Positions Held: Team Leader; Activities performed:** Reviewed all available data, reports and documents, reconnaissance survey, geotechnical engineering design for bridges in planning, design and execution of roads on reclamations, reclamations, bridges; coordinated and oversaw the project works of various key personnel, preparation of QAP for all field, design and documentation activities, checked topographical surveys, material, pavement and geological data analysis and finalized design standards and codes of practices; identified possible improvements in the existing road alignment and identification of available options and selection of rehabilitation and construction alternatives based on techno-economic considerations; finalized detailed engineering design for highways using computer aided design tools V12. MOSS & AutoCAD; prepared bid documents and technical specifications of work; and prepared work program, construction manual, developed a suitable PMS and MIS, establish QAM, construction supervision and contract administration of works utilizing modern project management.

Name of Assignment: Detailed Engineering Design, Construction Supervision and Maintenance of 6 Lining of Motorway Section from Jeddah to Jazan in Saudi Arabia; Year: 10/2015 – 12/2017; **Location:** Saudi Arabia; **Client:** Jeddah Municipality Authority; **Main Project Features:** Lane: 6, Length: 62 Km; **Positions Held: Team Leader; Activities Performed:** Reviewed all available data, reports and documents, reconnaissance survey; coordinated and oversaw the project works of various key personnel, preparation of QAP for all field, design and documentation activities; checked topographical surveys; material, pavement and geological data analysis and finalization of design standards and codes of practices; identified possible improvements in the existing road rehabilitation and construction alternatives based on techno- economic considerations; finalized detailed engineering design for highways using computer aided design tools viz. MOSS & AutoCAD; prepared of bid documents and technical specifications of work; prepared work program, construction manual, developed a suitable PMS and MIS, established QAS, construction supervision and contract administration of works utilizing modern project management methods, viz. CPM and PERT; Ensured full quality control, quality assurance systematic inspection and testing of materials, maintenance of records; Monitoring physical and financial progress of works to ensure their completion with time schedule and earmarked cost; Ensured that the environmental and social aspects were taken into consideration duration the execution of the project; Prepared and submitted the interim payment certificates, invoices, claims, and other statements and monitored the payment process; Imparted training to the engineers deputed by the employer, operation of contract as per FIDIC conditions of contract provided coordination with other agencies to prevent delay for execution of the project and represented in dispute review board and arbitration hearings and prepared various reports; and Assisted ERA in reviewing contractor's performances bound, retention bond & bank guarantee for advance payment and other guarantees if any.

Name of Assignment: Detailed Engineering Design and Construction Supervision of 10 lanes Motorway Section of East Corridor P011 under Doha Expressway Programme on EPC Mode Managing Project Works; Year: 07/2013 – 10/2015; **Location:** Qatar; **Client:** ASHGHAL-Public Works Authority; **Main Project Features:** Length: 30 Km.; **Positions Held: Team Leader; Activities Performed:**

During Design Phase: Reviewed all available data, reports and documents, reconnaissance survey; coordinated and oversaw the project works of various key personnel; prepared quality assurance plan (QAP) for all field, design and documentation activities; checked topographical surveys, material, pavement and geological data analysis and finalization of design standards and codes of practices; identified possible improvements in the existing road alignment and identified available options and selected rehabilitation and construction alternatives based on techno-economic considerations; Finalized detailed engineering design for highways using Computer Aided Design tools viz. MOSS and AutoCAD; Prepared bid documents and technical specifications of work.

During Construction Supervision: Prepared work program, construction manual; Developed a suitable project management system and management information system (MIS); establish quality assurance system; construction supervision and contract administration of works utilizing modern

project management methods, viz, CPM and PERT; ensured full quality control, quality assurance, systematic inspection and testing of materials, maintenance of records; monitored physical and financial progress of works to ensure their completion within time schedule and earmarked cost; ensured that the environmental and social aspects were taken into consideration during the execution of the project; prepared and submitted interim payment certificates, invoices, claims and other statements and monitored the payment process; imparted training to engineers deputed by the employer, operation of contract as per the FIDIC conditions of contract; provided co-ordination with other agencies to prevent delay in execution of the project and represented in the disputes review board and arbitration hearings and prepared various reports.

Name of Assignment: Consultancy Services for Authority's Engineer for Supervision of Package-I: Four Lanning of Hassan (Existing Km 189+700, Design Chainage 184+912) to Maranahally (Existing km 237+000, Design Chainage 230+060) Section of NH 75 (Old NH No. 48) under EPC Mode in the State of Karnataka; Year: 01/2018 – 08/2019; Location: India; Client: NHAI

Main Project Features: Lane: 4, Length: 45.143 Km; **Positions Held: Team Leader; Activities Performed:** Reviewed all available data, reports and documents, reconnaissance survey, geotechnical engineering design for bridges in planning, design and execution of roads on reclamations, reclamations; coordinated and oversaw the project works of various key personnel, preparation of QAP for all field, design and documentation activities; checked topographical surveys, material, pavement and geological data analysis; finalized design standards and codes of practices; identified possible improvements in the existing road alignment, available options and selection of rehabilitation and construction alternatives based on techno-economic considerations; finalized detailed engineering design for highways using computer aided design tools viz. MOSS & AutoCAD; prepared bid documents and technical specifications of work; prepared work program, construction manual, developed a suitable PMS and MIS, establish QAS, construction supervision and contract administration of works utilizing modern project management methods, viz. CPM and PERT; assisted ERA in reviewing contractor's performances bound retention bond & bank guarantee for advance payment and other guarantees if any; and highway Construction length of 45.143 Km with 2 No's of Major Bridge, 6 Nos. of Minor Bridges 3 Nos. of VUP ,3 Nos. of VOP & 1 No. of ROB including major & minor junction works and utility and drainage works as per NHAI Standards

Name of Assignment: Consultancy Services for Preparation of Detailed Project Report for Widening and Improvement of 6 Laning of Madhya Kailash to Siruseri and Siruseri to Mahabalipuram Highway Section under PPP Project on DBFO Pattern in the State of Tamil Nadu; Year: 03/2012 – 06/2013; Location: India; Client: TNRDC; Main Project Features: Lane: 6, Length: 110 Km; **Positions Held: Team Leader Cum Senior Highway Engineer; Activities performed:** Detailed working drawings, detailed cost estimates, economic and financial viability analysis, environmental and social feasibility.

Name of Assignment: Project Management Consultancy Services for Widening and Strengthening of 4 Laning of Nelamangala to Devihalli Section of NH-48 in the State of Karnataka on EPC Mode under FIDIC Conditions of Contract; Year: 12/2010 – 02/2012; Location: India; Client: Lanco Infratech Limited; Main Project Features: Lane 4 Length 60.27 Km; **Positions Held: Resident Engineer; Activities Performed:** Approved and reviewed construction work program methodology; ensured proper traffic management measures and safety norms; issued working drawings; approve mix designs of concrete and bitumen courses submitted by EPC contractor, monitor and check day to day quality control of works; prepared interim certificate for monthly payments; team coordination, organized, assigned duties and checked the performances of the team; and was responsible in arranging regular meetings between the Contractor's client and supplier.

Name of Assignment: Construction for Rehabilitation and Upgradation to 4 Laning from Bangalore to Nelamangalam Section on NH-4 in the State of Karnataka; Year: 08/2009 –

12/2010; **Location:** India; **Client:** KSHIP; **Main Project Features:** Lane: 4, Length: 39.50 Km; **Positions Held: Project Manager; Activities Performed:** Design review and made changes therein in the light of the field conditions with the approval of the concerned authority; identified soil and other construction materials, ensuring that the testing of the soil and other construction materials, analysis and interpretation of their results were properly done in order to assess the suitability of their quality for use on this important project; prepared QAS and its implementation, finalized the setting out of works and method statement; reviewed all bituminous and cement concrete mix designs, methods of laying pavement layers, sampling and testing procedure to ensure the required standard and consistency; execution of earth work, sub- grade and laying of Wet Mix Macadam and the top layer of Bituminous concrete, also execution of seven structural works falling in this Project; project Management and Contract Management executed under FIDIC Conditions of contract; liaised with and assisted the Client (ERA) and regional officials as required; and participated in the design review process and prepared proposals for the client's approval.

Name of Assignment: Project Preparation including Detailed Engineering Design & Construction for Widening, Strengthening & Up-gradation of 6 Laning of Motorway of Sheikh Zayez Road in United Arab Emirates; Year: 06/2007 – 06/2009; **Location:** UAE; **Client:** RTA; **Main Project Features:** Lane: 6, Length: 28 Km; **Positions Held: Project Manager; Activities Performed:** Organized field investigation, collection of data through various surveys like material, survey, sub-soil investigations to decide type of foundation to be adopted in design, fixing alignment, grade; supervised all activities of field survey, compiled and analyzed data leading to preparation of DPR, detailed design of pavement, drawing specifications for various items of preparing bid documents, evaluation of tenders, allocation of works, advising in selection of preferred bidders etc.; and was responsible for reviewing contractors work program, method statements, material sources reviewing, EMP, approving materials and sources of materials, reviewing all asphalts mix designs and concrete mix designs proposed by the contractor executed under FIDIC conditions.

Name of Assignment: Construction for Widening, Strengthening and Maintenance of Existing 2 Laning to 4 Laning from Shivrampalli/Faruknagar -Jadcherla Section on NH-7 in the State of Andhra Pradesh; Year: 03/2006 – 05/2007; **Location:** India **Client:** PWD, Andhra Pradesh; **Main Project Features:** Lane: 4, Length: 38 Km; **Positions Held: Project Manager; Activities Performed:** Organized field investigation, collected data through various surveys like material survey, sub-soil investigations to decide type of foundation to be adopted in design, fixing alignment, grade; supervise all activities of field survey, compilation and analysis of data leading to preparation of DPR, detailed design of pavement, drafting specifications for various items of preparing bid documents, evaluation of tenders, allocation of works, advising in selection of preferred bidders etc.; and was responsible for reviewing contractors work program, method statements, material sources reviewing, EMP, approving materials and sources of materials, reviewing all asphalts mix designs and concrete mix designs proposed by the contractor executed under FIDIC conditions.

Name of Assignment: Preparation including Detailed Engineering Design & Construction of 4 Laning from Nellore to Kavali Section of NH-5 in the State of Andhra Pradesh; Year: 09/2003 – 03/2006; **Location:** India; **Client:** NHAI; **Main Project Features:** Lane: 4, Length: 44 Km; **Positions Held: Project Manager; Activities Performed:** Organized field investigation, collected data through various surveys like material survey, sub-soil investigations to decide type of foundation to be adopted in design, fixing alignment, grade; supervise all activities of field survey, compilation and analysis of data leading to preparation of DPR, detailed design of pavement, drafting specifications for various items of preparing bid documents, evaluation of tenders, allocation of works, advising in selection of preferred bidders etc.; and liaised with and assisted the Client (ERA) and regional officials as required; and participated in the design review process and prepared proposals for the client's approval.

Name of Assignment: Design & Construction for Widening, Strength gradation of 4 Laning of Hathipalli to Hosur Section on NH-7 in the State of Tamil Nadu; Year: 09/1999 – 08/2003; Location: India; Client: NHAI; Main Project Features: Lane: 4, Length: 46 Km; Positions Held: Sr. Highway Engineer; Activities Performed: Organized field investigation, collected data through various surveys like material survey, sub-soil investigations to decide type of foundation to be adopted in design, fixing alignment, grade; supervise all activities of field survey, compilation and analysis of data leading to preparation of DPR, detailed design of pavement, drafting specifications for various items of preparing bid documents, evaluation of tenders, allocation of works, advising in selection of preferred bidders etc.; and was responsible for reviewing contractors work program, method statements, material sources reviewing, EMP, approving materials and sources of materials, reviewing all asphalts mix designs and concrete mix designs proposed by the contractor executed under FIDIC conditions; liaised with and assisted the Client (ERA) and regional officials as required; participated in the design review process and prepared proposals for the Client's approval; and in coordination with the site supervisory staff, provided on job-training to employers personnel.

Name of Assignment: Construction for Widening and Strengthening of 2/4 Laning of Sindhkhed Raja to Dusarbid Section on SH-177 in the state of Maharashtra; Year: 07/1997 – 08/1999; Location: India; Client: PWD Maharashtra; Main Project Features: Lane: 2/4, Length: 30 km; Positions Held: Highway Engineer; Activities Performed: Involved in planning and scheduling of works, quality control/ quality assurance as per the MORT&H specifications, site supervision and preparation of quality reports etc.; was responsible for sample collection and getting tested in the laboratory for their suitability, construction of GSB, WMM, DBM AND BC layers, monitoring the crushing plant & hot mix plant and their maintenance and calibration; and implemented approved construction methods and standard of workmanship to get better quality.

Name of Assignment: Construction for Widening and Strengthening of 2 Laning of Nagpur-Umred-Kampastate Highway Section in the State of Maharashtra under the World Bank Aided Scheme; Year: 01/1990 – 03/1994; Location: India; Client: PWD, Maharashtra/ World Bank; Main Project Features: Lane: 2, Length: 73 Kms; Positions Held: Highway Engineer; Activities Performed: Modified the DPR drawings to prepare working drawings and was responsible for sample collection and getting tested in the laboratory for their suitability, construction of GSB, WMM, DBM AND BC layers; monitoring the crushing plant & hot mix plant and their maintenance; and calibration; implemented approved construction methods and standard of workmanship to get better quality; assisted the Project Manager in preparation of RA bills and revised BOQ etc.; and was also involved in planning and scheduling of works, quality control/ quality.

Name of Assignment: Construction for 2 Laning of Kunjwanl to Nagrotta Section of NH-1A (Jammu Bye-Pass) in the State of Jammu & Kashmir; Year: 10/1988 – 01/1990; Location: India; Client: PWD J&K; Main Project Features: Lane: 2, Length: 24 Km, Cost: INR 174.20; Positions Held: Site Engineer; Activities Performed: Assisted the Project manager in preparation of RA bills and revised BOQ etc.; was also involved in planning and scheduling of works, quality control/ quality assurance as per the MORT&H specifications, site supervision and preparation of quality reports etc.; was responsible for sample collection and getting tested in the laboratory for their suitability, construction of GSB, WMM, DBM AND BC layers, monitoring the crushing plant & hot mix plant and their maintenance and calibration; implemented approved construction methods and standard of workmanship to get better quality.

Expert's contact information: +91-040-27735803, syedcdp.syedcdp@gmail.com

Certification: I, the undersigned, certify to the best of my knowledge and belief that:

- (i) This CV correctly describes my qualifications and experience.
- (ii) I am not a current employee of the Executing or the Implementing Agency.
- (iii) 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.

(iv) I was not part of the team who wrote the terms of reference for this consulting services assignment.

(v) I am not currently debarred by a multilateral development bank.

(vi) I certify that I have been informed by the firm that it is including my CV in the Proposal for the **(Consultancy Services for the Construction Supervision of Qaisar - Laman Road Project (82 km Qaisar - Laman Section I and II))**. 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.

I understand that any willful misstatement described herein may lead to my disqualification or dismissal, if engaged.



14/10/2020

(Name of Expert: Syed Mahaboob Basha)
Day/Month/Year

Signature



14/10/2020

(Name of Authorized Representative: Jitender Pal Singh)
Day/Month/Year

Signature