

CURRICULUM VITAE

First name Last name : **Kunal Ghoda**

Nationality : **Indian**

Present position : **Assistant General Manager**

Date of birth: **23rd October 1978**

Marital status: **Married**

EDUCATION

2001

Bachelor of Engineering in CIVIL – Maharaja Sayajirao University, Vadodara

2003

Master of Engineering in Highway & Transportation Engineering, Maharaja Sayajirao University, Vadodara

ADDITIONAL TRAINING

Design, Construction & Maintenance of Flexible Pavement – at CRRI (5 days)

Effective English Writing – at AMA (10 weeks)

Work shop of Geotechnical Analysis of Slope Stability Analysis Using TALREN Software

SOFTWARE

- Microsoft Office
- HED
- IITPave
- KGPBACK
- Geoslope (Student version) & TALREN (Training taken in 2017)
- Slope 19.0
- Circlly 5.0
- HDM-IV (version 1.2)
- Autocad
- Keynetix
- PVD software for FWD analysis & FWD survey

KEY QUALIFICATIONS

More than 17 years of experience as a pavement & material engineer in the highway and transportation design sector.

As an **Assistant General Manager** involving to assist the DGM & AGM projects to carry out Material & pavement investigation & prepare design report, carryout geo-technical investigation & report preparation in line with ToR. Maintaining the quality control records for the each project. Carry out the calibration of laboratory equipment and maintain them to up to date condition.

Assist DGM & AGM projects, to maintain the sequence of project planning and various other project related activities. Co-ordination with the client. Liaoning, planning & progress monitoring of agencies. Provide support to carry out zero budget for the bidding project.

As a **Design Engineer** carry out field investigation, laboratory testing of collected samples, pavement design for rigid & flexible based on IRC, AASHTO, SATCC, RDM III etc. as per the requirement of project. Worked out rehabilitation strategy by doing analysis of data obtained from pavement investigation survey. Carry out slope stability analysis for high embankment. Support provide to carryout economic analysis of the highway project using HDM IV.

As an **Earth work design Engineer** for railways project to carry out structural design of each layer of railway earthwork like thickness of general fill, structural fill & capping layer. Carryout stability analysis for the same.

Basic Skill

- Pavement Design (IRC, AASHTO, SATCC, RDM III etc.)
- Slope Stability Analysis
- Economic Analysis (Basic - for highway projects only)
- Budget preparation for the highway projects

LANGUAGES

	READ	SPOKEN	WRITTEN
Gujarati	Native Tongue	Native Tongue	Native Tongue
English	Fluent	Fluent	Fluent
Hindi	Fluent	Fluent	Fluent

PROFESSIONAL EXPERIENCE

Since July 2007

SAI Consulting Engineering Pvt. Ltd., SYSTRA GROUP

Assistant General Manager

Sr. No.	Designation	Period	
		From	To
1.	Assistant General Manager	April 2016	Till Date
2.	Project Manager	April 2015	April 2016
3.	Deputy Project Manager	April 2012	April 2015
4.	Senior Engineer	April 2008	April 2012
5.	Material Engineer	July 2007	April 2008

DESIGN, CONSTRUCTION, TESTING, COMMISSIONING AND OPERATION AND MAINTENANCE OF INFRASTRUCTURE WORKS FOR SECTOR A IN AURIC BIDKIN INDUSTRIAL AREA (BIA)

Material & Geo-tech Engineer, From march 2016 to till date,
Client : L&T

As a Material & geo-tech engineer responsible for finalized geo-technical agency & investigation program for field work and monitoring of field investigation carried out by team and agencies. Prepared survey and investigation report including available and recommended value of SBC for box type bridges only and getting approval from the IE.

CARRYOUT FWD SURVEY AND ANALYSIS FOR UPGRADING TO FOUR LANE AND MAINTENANCE OF MEHSANA-HIMATNAGAR, SH-55 UNDER DESIGN. BUILD, FINANCE. OPERATE, MAINTAIN, AND TRANSFER (DBFOMT) - ANNUITY BASIS FOR SECOND GUJARAT STATE HIGHWAY PROJECT FWD SURVEY FOR MEHSANA-HIMATNAGAR ROAD PROJECT FROM KM 110/960 TO KM 116/960

Pavement Engineer, From October 2017 to December 2017
Client : RKC Infrabuilt Pvt. Ltd.

As pavement engineer, carryout FWD survey and analysis to evaluate the properties/strength of existing (newly laid) pavement layers like subgrade, unboud granular layes (GSB+WMM) and bituminous layer (DBM & BC) using KGPBack software as per guidelines given in IRC 115.

CARRY OUT CONCEPT AND REFERENCE DESIGN FOR MYHSR CORPORATION SDN BHD KUALA LUMPUR – SINGAPORE HIGH SPEED RAIL PROJECT.

Earthwork & Geotech Engineer, From May 2017 to March 2018

Client : Systra, Paris

As a earthwork and gotech engineer responsible for preparing interpretive Geotech investigation report for two packages (RDC 01) and (RDC 03) using available bore holes data and preparing geotech plan and profile. Also prepared advance soil investigation plan for the client including estimated BOQ for proposed soil investigation work. Prepared typical cross section and for earthwork and verify this cross section for slope stability analysis and settlement calculation.

CARRY OUT IRD DESIGN FOR HS 2 PROJECT BETWEEN BIRMINGHAM TO LONDON IN UNITED KINGDOM.

Earthwork Engineer, From November 2017 to Till date

Client : Systra, Paris

As a earthwork engineer start working on preparation of Geotechnical design report (GDR) for the project section.

FEASIBILITY & DETAILED STUDIES AND TOLL BRIDGE INSTITUTIONAL MODEL TRANS-GAMBIA CORRIDOR PROJECT PHASE-II (RAOD LENGTH 24 KM).

Project manager & Pavement & Material Engineer, From April 2016 to August 2017,

Client : National Road Agency (NRA)

As a project manager, carried out all the submissions upto Draft Final report of the project with co-ordination with external expert and with all team members. Working of preparation of Final Report. Worked out various pavement option using DCP and FWD analysis using prevailing design standard.

DETAIL ENGINEERING DESIGN TP 2 E IN DHOLERA, SIR IN THE STATE OF GUJARAT (RAOD LENGTH 72 KM).

Material & Geo-tech Engineer, From march 2016 to till date,

Client : L&T

As a Material & geo-tech engineer responsible for finalized geo-technical agency & investigation program for field work and monitoring of field investigation carried out by team and agencies. Prepared survey and investigation report, embankment settlement analysis report and geo-technical investigation report including available and recommended value of SBC for box type bridges only.

DETAIL ENGINEERING DESIGN TALAJA TO MAHUVA SECTION OF NH-8E (RAOD LENGTH 45 KM) AND MAHUVA TO KAGAVADAR SECTION OF NH-8E (ROAD LENGTH 40KM).

Pavement Material & Geo-tech Engineer, From July 2016 to till date,

Client : MEP infra

As a pavement material engineer carried out pavement and material investigation including laboratory testing and prepared survey and investigation report. Carried out

rigid pavement design for both package as per Contract Agreement and submit the report. As a geo-tech engineer finalized the geo-tech agency, monitoring the progress on site and preparing geo-tech investigation report along with SBC calculation for box type foundation only.

DETAIL ENGINEERING DESIGN FOR THE REHABILITATION OF ROAD N1 BETWEEN RIOSAVE AND MUXUNGUE (109 KM).

Pavement & Material Engineer, From September 2013 to March 2017,

Client : ANE

As a pavement & material engineer responsible for planning, monitoring of field investigation carried out by agencies. Carried out site visit and done visual condition survey and also witness randomly the pavement investigation done by agencies. Carried out vehicle count & collect the axle load data for the project road sections. Doing analysis of data and prepared pavement investigation & design report as per prevailing standards considering mechanistic empirical approach.

CONSULTANCY SERVICES FOR ENVIRONMENTAL & SOCIAL IMPACT ASSESSMENT AND DETAILED ENGINEERING DESIGN OF LAMU - GARISSA ROAD IN KENYA. PROJECT ROAD IS PART OF AMBITIOUS LAPSET CORRIDOR (249 KM).

Pavement & Material Engineer, From May 2014 to May 2017,

Client : KeNHA

As a pavement & material engineer responsible for planning, monitoring of field investigation carried out by agencies. Doing analysis of data and prepared pavement investigation & design report as per prevailing standards considering mechanistic empirical approach.

DETAIL DESIGN FOR STRUCTURES FOR LUCKNOW TO UNNAO SECTION OF AGGRA TO LUCKNOW EXPRESSWAY

Geo-technical Engineer, From November 2014

Client : L&T ECC

As a geo-technical engineer, finalized geo-technical agency & investigation program for field work. Maintaining the daily progress/weekly progress report and also review as well as expedite if the progress found slow. Monitoring the field work with co-ordination with client. Preparing geo-technical investigation report including available and recommended value of SBC for each structure.

DETAILED ENGINEERING DESIGN FOR RAIL FORMATION, EARTHWORKS, BRIDGES, STRUCTURES & MAJOR DRAINAGE STRUCTURES FOR THE PROPOSED NEW ADANI RAILWAY LINE FROM THE ADANI CARMICHAEL MINE TO MORANBAH CONNECTING THE EXISTING QR NATIONAL (QRN) GOONYELLA RAILWAY SYSTEM, 190 KM (APPROX.)

Earthwork Engineer, From November 2012 to March 2013

Client : Adani Railway division

As earthwork engineer responsible for design the earthwork including various layers like general fill, structural fill & capping layer. Providing value engineering in the earthwork design by optimization of the thickness of layers, considering other option like geo-grid/geo-textile etc. Checking of slope stability analysis.

PROOF CHECKING OF DETIAL DESIGN OF 12.43 KM DUAL CARRIAGEWAY ROAD INCLUDING INTECHANGE IN THE STATE OF KUWAIT. SHAIKH JABER AL-AHMED AL-SABAH CAUSEWAY PROJECT (DOHA LINK) LOCATED IN KUWAIT CITY. KM 12.43

Pavement engineer from August 2015 to december 2015

Client : Systra Korea

As a pavement engineer review the pavement design carried out by the concessionaire. It also comprises to issue comment to make pavement design report in order as per the

prevailing standards and specification of Kuwait. Similarly, carried out the review of slope stability of high embankment.

PROOF CHECKING OF WIDENING & STRENGTHENING OF RAJ-ATHAGARH-NARASINGHPUR ROAD (SH-65) TO 2-LANE WITHOUT PAVED SHOULDER FROM KM 0/000 TO KM 80/000 ON EPC MODE, 80 KM

Pavement design Engineer, From August 2014 to December 2015

Client : Sadbhav Engineering Pvt. Ltd.

As pavement engineer the responsibilities are to check pavement & material investigation and design report prepared and submitted by the ECP contractor. If the report is not found in order, comment on the report to be issue through project manager/team leader. Check the revised submission of the report that the given comment must incorporated in the report and. Give concern to the pavement design for approval to the project manager/team leader.

PREPARATION OF DETAIL PROJECT REPORT (DPR) PROJECT

Pavement & Material Engineer,

As a pavement & Material Engineer, carry out pavement investigation works & mechanistic pavement design with various feasible options. Co-ordination with the client, planning and for performance of pavement & material investigation & design related activities for the project. Geo-technical investigation works, planning, agency finalization & issuing WO, monitoring field activity & report preparation. Preparing pavement investigation & design report, preparation of geo-technical investigation report. Carry out embankment design like slope stability, settlement analysis etc. Carry out economic analysis.

Worked as Pavement & Material engineer in following DPR projects

- DPR for Development of Economic Corridors, Inter Corridors, Feeder Routes to Improve the Efficiency of Freight Movement in India (Lot-2/Gujarat/Package-I)
- DPR for Baysi to Dighalbank in the state of Bihar for BSRDCL (running project)
- DPR for Unchanagala to Dholpur in the state of Rajasthan & UP for NHAI
- DPR for Chhatarpur to Japla and Bagaramore to Panki in the state of Jharkhand for SHAJ
- DPR for Deogarh to Bengabad and Deogarh to Madhopur in the state of Jharkhand for SHAJ
- DPR for Munger to Mirzacheuki in the state of Bihar for Ministry of Transportation
- DPR for 12 roads in the Madhya Pradesh for MPRDC
- DPR for Jhajpur to Mandalgarh in the state of Rajasthan for RSRDC
- DPR for Aarah to Mohania of in the state of Bihar for IDFC (closed halfway)
- DPR for Aurangabad to Bihta in the state of Bihar for IDFC (closed halfway)
- DPR for Patna bypass in the state of Bihar for IDFC (closed halfway)

PREPARATION OF FEASIBILITY REPORT (FR) PROJECT

Pavement & Material Engineer

As a pavement & Material Engineer, carry out pavement investigation works & mechanistic pavement design with various feasible options. Co-ordination with the client, planning and for performance of pavement & material investigation & design related activities for the project. Geo-technical investigation works, planning, agency finalization & issuing WO, monitoring field activity & report preparation. Preparing pavement investigation & design report, preparation of geo-technical investigation report. Carry out economic analysis.

Worked as Pavement & Material engineer in following FR projects

- Feasibility study for various roads in Indore district of Madhya Pradesh for MPRDC

- Feasibility study for various roads in Ujjain district of Madhya Pradesh for MPRDC
- Feasibility study for Bina – Kurwai – Sironj in the state of Madhya Pradesh for MPRDC
- Feasibility study cum preliminary design for Nashik to Peth in the state of Maharashtra for MHPWD.
- Feasibility study cum preliminary design for Beawar to Udaipur in the state of Rajasthan for Ministry of Transportation & NHAI

DETAIL DESIGN PROJECT (CONSTRUCTION PROJECT)

Pavement, Material & Geo-technical Engineer,

As a pavement & Material engineer, details field investigation like visual condition survey, core of existing pavement & subgrade, evaluation of existing pavement (using BBD instrument) & laboratory testing of various potential sources had been carried out. Detail analysis had been done based on outcome of details surveys. Pavement design & strengthening of existing pavement had been carried out using mechanistic pavement design approach to add value engineering to the concessionaire.

As a geo-technical engineer, geo-technical investigation program, planning, monitoring had been carried out. Based on the geo technical report value engineering had been added to the concessionaire in embankment design.

Worked as Pavement & Material engineer in following Construction projects

- Halol-Godhara-Shamlaji for L&T ECC in the state of Gujarat
- Krishnagiri-Walajahpet for L&T ECC in the state of Tamilnadu
- Pali-Pindwara for L&T ECC in the state of Rajasthan
- Gwalior-Shivpuri for ESSEL in the state of Madhya Pradesh (project dropped)
- Shivpuri-Dewas for L&T in the state of Madhya Pradesh (Project closed halfway)
- Nimbijodha-Merta city for DRA in the state of Rajasthan (Running Project)
- Lucknow-Unnao section of Lucknow – Agra access control expressway for L&T ECC in the state of Uttar Pradesh

PRE-BID DESIGN PROJECT (CONSTRUCTION PROJECT)

Pavement, Material & Geo-technical Engineer,

As a pavement & Material engineer, Preliminary field investigation like visual condition survey, potential source of construction material within the vicinity of the project road area their approximate available quantity & minimum lead distance from the nearest point of the project road & lab testing for their suitability for the construction material, evaluation of existing pavement (using BBD instrument) had been carried out. Detail analysis had been done based on outcome of details surveys. Pavement design & strengthening of existing pavement had been carried out using mechanistic pavement design approach to add value engineering to the concessionaire.

Worked as Pavement & Material engineer in following Pre-bid design projects

- FWD survey for CRRRI at Surat on newly laid modified base road.
- Mumbai-Vadodara expressway Package IV & V for L&T.
- Mumbai-Nagpur expressway Package (V to VIII) (172 km) for L&T.
- Six lanning of NH-8A from Ahmedabad to Rajkot (212 km) for L&T.
- Six laning of NH-8 from Gulabpura to Chittorgarh (124 km) and Udaipur to Shamlaji (109 km) for L&T.
- Package VI and VII of Lucknow ring road in green field (29 km) for L&T.
- Four Laning of Yawatmal to Wardha and Wardha to Butibori section (120 km) for MEP infra.
- Prebid services for extra dosed bridged on river Ganga at Patan for Systra Korea for

Hyundai and HCC

- NH-361 Tulajapur to Ausa in the state of Maharashtra for MEP
- 5 packages of NH 8 E in the state of Gujarat from Talaja to Veraval for L&T IDPL
- 4 packages of NH-222 in the state of Maharashtra for L&T
- NH-49 Madurai to Ramnathanpur in the state of Tamilnadu for HCC
- NH-210 Karaikudi to Ramnathanpur in the state of Tamilnadu for HCC
- NH-13 Chitradurge to Shimago in the state of Karnataka for L&T
- NH-58 Delhi to Meerut expressway and national highway for Sadbhav engineering limited
- Halol to Shamlaji for Leiten India in the state of Gujarat
- Rajkot Jamnagar Vadinar for KMC – NCC in the state of Gujarat
- Ahmedabad Viramgam Maliya for BSCPL in the state of Gujarat
- Jabalpur to Bhopal for ESSCEL in the state of Madhya Pradesh
- NH-3 Gwalior to Dewas in the state of Madhya Pradesh for L&T
- NH-8 Udaipur to Ahmedabad in the state of Rajasthan & Gujarat for TATA.
- And many more project for various concessionaire like L&T, Sadbhav, IRB etc.

March 2006 to June 2007

Stanley Consultancy Inc.

4-LANING OF NH-8A FROM BANMANBORE TO GARAMORE (FROM KM 182.400 TO 254.000) IN THE STATE OF GUJARAT OF EWC PACKAGE III. NAME, FROM: MARCH 2006 TO JULY 2007

Asst. Material Engineer

As Asst. Material Engineer, main responsibility is to Maintain Quality Control as per the MORT&H specification and IS codes. Responsibility include Sampling and testing of embankment, sub grade, GSB, WMM, DBM, BC material. Also quality assurance work, material testing of asphalt and Concrete as per the frequency of volume of work. Also Calibration of lab equipment. Controlling of Hot mix and Batch mix Plant. Responsibilities also include to assist the Material and Senior Pavement Material Engineer in finalize the mix design.

July 2003 to March 2006

Ahmedabad Vadodara Expressway Co. Ltd., (National Highways Authority of India)

ROUTINE MAINTENANCE OF AHMEDABAD VADODARA EXPRESSWAY, FROM MARCH 2003 TO MARCH 2006

Material Engineer

As a Material Engineer main responsibilities are Maintaining the Quality of maintenance work, Supervision of maintenance carried out by contractor, Preparing & checking of the interim payment certificate (IPC) & Preparing the Variation Order and Saving and Excess Statement. Maintenance of Tolling system and liaising with local villagers and authorities.

April 2003 to June 2003

S V Pandya Consulting Company

WIDENING AND STRENGTHNING FROM INTERMEDIATE TO TWO LANE FROM VAPI TO AMBHETI SECTION (KM 4/600 TO 25/500) OF SH-5 UNDER THE NHDP PHASE II , FROM MARCH 2003 TO JULY 2003

Field Engineer

As a Field Engineer main responsibilities are Maintaining the Quality of Work on site of construction of embankment, subgrade, Granular Sub Base, Wet Mix Macadam, Bituminous Macadam & Surface dressing, Supervision of construction work.

January 2003 to
March 2003

M/s J.J.Patel Construction Company

ROUTINE MAINTENACE OF NH-8 FROM VADODARA TO SURAT SECTION OF NH-8 (KM 130+000 TO 264+300), FROM JANUARY 2003 TO MARCH 2003

Junior engineer

As a junior Engineer the prime responsibilities are to maintain the assign section of the project road (i.e. from km 153/000 to km 190/000). Preparing indent of various maintenance work, checking and certify the work carried out by the sub agencies, preparing daily progress report of the assign section.