

# CURRICULUM VITAE

**RAVI KUMAR AGRAHARI**

**Date of Birth** : 5<sup>th</sup> March 1982  
**Nationality** : Indian  
**Sex** : Male  
**Caste** : General  
**Permanent Address** : Koiripur - Pant Nagar, Dist. Sultanpur U.P. 222301  
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**Resume:** I consider myself an efficient person with enthusiasm who is always ready to work in all circumstances and I can adjust myself in any condition.

**Key Qualification:** I have done **Masters in Structural Engineering from Delhi College of Engineering**, Delhi and **Bachelors in Civil Engineering from National Institute of Technology, Durgapur W.B.** in year 2004. Apart from that I have done Practical Trainings at **IIT Madras** and **IIT Roorkee** for one month each. I worked in **LEA Associates South Asia Pvt. Ltd.**, Delhi from August 04 to December 04 in Bridge Design section of the same as an Assistant Engineer. Presently I am working in **Concepts Consultancy Services**, Delhi from **December 04 to Till Date** in Bridge Design section of the same as a Design Engineer.

## **Education:**

- 1. Masters** in Structural Engineering, Year 2011, Delhi College of Engineering, Delhi. 67%.
- 2. Bachelors** in Civil Engineering, Year 2004, National Institute of Technology, Durgapur W.B., TCPA 77.8.
- 3. Higher Secondary**, Year 1999, Government Inter College, Affiliated to Board of High School and Intermediate Education U.P., 68 %.
- 4. Secondary**, Year 1997, SSIC Ramganj Pratapgarh, Affiliated to Board of High School and Intermediate Education U.P., 58.7 %.

## **Project in Masters Degree:**

### **1. Performance Analysis of Piled Raft Foundation**

For very heavy structure like multi storey building where the load is high, open foundation is not a feasible solution to meet the design requirements because of space restriction & poor soil properties. To cater the problem and construct heavy structures, piles are added at critical locations in the raft foundation to enhance bearing capacity and for better settlement behavior. These type of foundations are called as Piled Raft Foundation. Various aspects and Design methodology has been studied in the project titled Performance Analysis of Raft Foundation.

### **Projects in Bachelors Degree:**

1. Designing of a Hydraulic Lab setup to facilitate the experiments on Open Channel Hydraulics.
2. Planning, Analysis and Design of a Four Storey Building having two Flats in each level
3. Surveying and leveling of College Campus area.

### **Professional Trainings:**

1. Attended 1 month Classroom Training on "Introduction to Railways Engineering" at Centre for Continuing Education, **IIT Roorkee** from August 16, 2004 to September 11, 2004.

This course, sponsored by LEA Associates South Asia Private Limited, New Delhi, was aimed at developing expertise in the field of Railway Engineering, to provide consultancy to Indian Railways in the long run.

2. Attended 1 month Classroom Training and Project Work on the topic "LIQUEFACTION OF SOIL", at **IIT Madras**, in June 2003.

The various topics included were Hazards due to liquefaction, various methods for strengthening the soil to resist liquefaction etc.

### **Computer Proficiency**

Staad Pro, Strap, Auto Cad, Excels, MS Word, PDF.

### **Awards/Commendations:**

1. **Gold Medal** and Certificate for First Class First in Graduation at National Institute of Technology Durgapur.
2. **Merit Scholarship** in year 2001,2002,2004 during Graduation at National Institute of Technology Durgapur.
3. Scored **96.21 percentile in GATE** (Graduate Aptitude Test in Engineering) in year 2004.

### **Extra Curricular Achievements:**

1. Coordinator of events in Technical Festival in year 2003 at NIT Durgapur.
2. Won the First prize in Cross Word Competition in Technical Festival in year 2004 at NIT Durgapur.

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### **Employment Record:**

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| <input type="checkbox"/> August 2004 – December 2004 | <b>Assistant Engineer</b><br><b>LEA Associates South Asia Pvt. Ltd., Delhi</b><br><b>Structural designing of Culverts and Minor Bridges.</b>  |
| <input type="checkbox"/> December 2004 – Till Date   | <b>Design Engineer</b><br><b>Concepts Consultancy Services, Delhi</b><br><b>Structural designing of Bridge, Flyover, Underpass and Interchange etc with RCC, PSC and Steel type super structure resisting on Piers and Abutments with Open, Pile and Well Foundation. I have worked for following projects.</b> |

## **Professional Experience:**

- **Design of Seven bridges on Mughal Road for Chief Engineer, Mughal Road J&K State.**  
Design of Steel Truss Bridges at Bufliaz (53mx2), Pannar (66m), Chattapani (74m), Rattachamb (74m), Lalgulam (50m), Zaznar (36m) & Dubjan (56m). Structure includes Truss type super structure, RCC Abutment and Piers resting on Open Foundation.
- **Design of Multi Lane high level bridge including three lane flyovers at UBDC crossing on Amritsar Jalandhar road for Chief Engineer, PB PWD (B&R) Amritsar.**  
Design of three bridges (Each 45m-24D skew) and one flyover (137m). Structure includes RCC and PSC type super structure, RCC Abutment and Piers resting on Open and Pile Foundation.
- **4/6 laning of km100 (Chengapalli) to km182 (Walayar) on NH-47 (Package TN8) in the state of Tamilnadu on DBFO pattern under NHDP for National highways Authority of India (NHAI).**  
Design of Flyovers at ch.133+700(60m), ch.144+380(95m-60D skew), ch.144+239(60m) & ch.171+412 (60m), Slab and Box Culverts, VUP and widening of various bridges. Structure includes RCC and PSC type super structure, RCC Abutment and Piers resting on Open and Pile Foundation.
- **Widening of Jalandhar – Amritsar section of NH – 1 (km 407.1 to 456.1) in the state of Punjab for National highways Authority of India (NHAI).**  
Design of ROB NO 409/2 (34.2+33.2m), ROB NO 416/1 (35.3m), ROB NO 452/1 (27.7m) and ROB NO 456/1 (23.1m). Structure includes PSC type super structure, RCC Abutment and Piers resting on Pile Foundation.
- **Four laning of Salem Kumarapalyam section of NH-47 from km1.60 to km100 (Package TN6 and TN7) on BOT basis for National highways Authority of India (NHAI).**  
Design of Cauvery (715m) Major Bridge, Chengapalli (75m), Kodalampatty (83.7m), Bhawani (298.7m + 409.5m), Vinayaka (83.7m) Flyovers, Interchange (2x1000m main + 316m service + 323m service lanes), Slab and Box Culverts. Structure includes RCC and PSC type super structure, RCC Abutment and Piers resting on Open and Pile Foundation.
- **Design of Bridge over Jallalabad main drain at RD 5758 on road from Ladhuka to F.F. Road for PWD (B&R) Punjab.**  
Design of 17.67mx3 long bridge which includes RCC type super structure, RCC Abutment and Piers resting on Pile Foundation.
- **Design of High Level Bridge (3 spans 11m each clear) over Fida drain (Satluj Creak) X-ing Firozpur Fazilika Road to village Gazniwala in Distt. Firozpur for PWD (B&R) Punjab.**  
Design of 11mx3 long bridge which includes RCC solid slab type super structure.
- **Design of High Level Bridge over Mohali Choe at Crossing Railway Line Kambli Dharamgarh Link Road in Distt Mohali, Punjab State for PWD (B&R) Punjab.**

Design of 19.67mx2 long bridge which includes RCC super structure, RCC Abutments and Pier resting on Well Foundation.

- Design of 60m long single Major Permanent Bridge with Footpath with Steel Truss type Super structure and Sub structure on Pile foundation over Bhakra main canal at km 17.51 on road Patiala Southern Bypass under project Chetak in Punjab State for The Directorate General Border Road.

Design of Steel Truss type super structure, RCC Abutment resting on Pile Foundation.

- Design of 20m long Foot Over Bridge on NH-58 km 209 for connecting Pavan Dham to Saptarishi Ashram for PWD Haridwar, Uttarakhand.
- Design of 40m long Foot Over Bridge at Shankaracharya Chowk on NH-58 for PWD Haridwar, Uttarakhand.
- Design of 90m (54+36) long PSC Box Bridge over nallah Karunakhas at km 43.95 on Road Rajauri – Kandi – Budhil under project Sampark in J&K State for The Directorate General Border Road.

Design of PSC Box type super structure, RCC Abutment and Pier resting on Open Foundation.

- Major Bridge over river Jhelum at km 1.954 on Sopore Bypass for The Directorate General Border Road.

Design of 43.7mx5 long bridge which includes PSC girder and RCC Slab type super structure, RCC Abutment and Pier resting on Well and Open Foundation.

- Design of 30m span PSC Box type Major Permanent Bridge on open foundation over Mahura nallah at km 86.94 on Srinagar – Baramula – Uri Road under project Beacon in J&K State for The Directorate General Border Road.

Design of PSC Box type super structure, RCC Abutment resting on Open Foundation.

- Design of 105m (3x35) span PSC Box Major Permanent Bridge Hiller on Open foundation over river Bring at km 140.05 on road Kishtwar – Sinthan Pass – Anatnag under project Beacon in J&K State for The Directorate General Border Road.

Design of PSC Box super structure, RCC Abutment and Pier resting on Open Foundation.

- Design of two lane bridge with footpath over river jhelam at qamarwari on khanyar gojwara road in J&K state for The Chief Engineer (R&B) Kashmir.

Design of 43.2mx2 long bridge which includes PSC girder and RCC Slab type super structure, RCC Abutment and Pier resting on Well and Pile Foundation.

- Four laning of various roads in riwari town and construction of new roads in riwari district PKG. NO. HSRDC/NCR/C-11/2008 for Haryana State Road Development Corporation.

Design of 7.7mx2 long bridge which includes RCC Slab type super structure, PCC Abutment and Pier resting on Open Foundation.

- Design of Approaches of ROB (excluding railway portion) Replacement of L-Xing no. 92B at km 110/2-3 (Near SD College) on Dhuri Bathinda Section at Barnala for PWD (B&R) Punjab.

Design of 466m long bridge with four span continuous module and three span continuous module type super structure, RCC Abutment and Pier resting on Pile Foundation.

- Design of 12m single span RCC Solid Slab Bridge over Sotha Ropana Link Drain at RD 22877 for PWD (B&R) Punjab.

Design of RCC Solid Slab super structure, RCC Abutment resting on Open Foundation.

- Design of 37.4m single span Steel Truss Bridge (Through Type) at over Abohar Branch Canal for PWD (B&R) Punjab.

Design of Steel Truss super structure, RCC Abutment resting on Pile Foundation.

- Design of 30m single span Steel Truss Bridge (Through Type) over Sirhind Feeder Canal at RD 4.1km Crossing on Lambi – Panjwa – Sikhara - Kutianwala Road in distt. Faridkot for PWD (B&R) Punjab.

Design of Steel Truss super structure, RCC Abutment resting on Pile Foundation.

- Design of 73.5m single span Steel Truss Bridge (Through Type) over Rajasthan Feeder Canal at RD 4.1km Crossing on Lambi – Panjwa – Sikhara – Kutianwala Road in distt. Faridkot for PWD (B&R) Punjab.

Design of Steel Truss super structure, RCC Abutment resting on Pile Foundation.

- Design of 36m single span Steel Truss Bridge (Through Type) at Narwana on Bahadurgarh – Ceal – Ghanour – Shambu Road at km 25 for PWD (B&R) Punjab.

Design of Steel Truss super structure, RCC Abutment resting on Pile Foundation.

- Design of 38m single span Steel Truss Bridge (Through Type) over Bhakhra main line Canal at RD 344450 crossing on Saman Gulkha Road for PWD (B&R) Punjab.

Design of Steel Truss super structure, RCC Abutment resting on Pile Foundation.

- Design of 185m long Foot Suspension Bridge over River Chenab at village Marsoo, Distt Doda, J&K State for Baglihar Hydroelectric Projects, Chanderkote.

Design of Steel super structure, Steel Towers, Pier and Anchor Blocks.

- Design of Road Over Bridge at Tifra in Lieu of Level Crossing no. BK2 at km 722/3-4 between Bilaspur – Ulaspur for South East Central Railway.

Design of 20.65mx4 long bridge with 32D skew which includes PSC super structure, RCC Piers resting on Pile Foundation.

- Design of Sub structure for 130' long Bailey Bridge Dharam Access Road Bridge across Chinji Nallah in connection with construction of JKRLP for Ircon International Limited.

**Design of Abutments resting on Open Foundation.**

- **Design of Sub structure for 70' long Bailey Bridge over Hingni nallah in Banihal (J&K) for JKRL project for Ircon International Limited.**

**Design of Abutments resting on Open Foundation.**

- **Design of Sub Structure for 150' long Bailey Wagan Bridge over river Bichlery in Distt Doda (J&K) in connection of USBR project for Ircon International Ltd.**

**Design of Abutments resting on Open Foundation.**

- **Design of Sub Structure for 150'+180' long Bailey Bridge over river Bichlery at village Digdole (J&K) for Ircon International Ltd.**

**Design of Abutments and Pier resting on Open Foundation.**

- **Design of Abutment & Pier resting on Open Foundation for Banganga Bridge (NO 32) at km 28/138 on Katra – Reasi section of Udhampur - Sri Nagar Rail – Baramula BG Rail Link Project for Northern Railway.**
- **Design of Abutment & Pier resting on Well Foundation on river Dollu and Madura on Silchar – Udarband – Harangajo section of NH-54 for National Highways Authority of India (NHAI).**
- **Design of 9 storey New SPS Central Library in Srinagar for Directorate of Libraries ( Dept of Education).**
- **Design of Rindigangchu 75m span Arch Bridge for The Department of Roads, Ministry of Works and Human Settlement, Thimpu Bhutan.**

**Design of Steel Arch type super structure, Steel Towers, RCC Abutments resting on Open Foundation.**

- **Design of Road Over Bridge at km 1498/13-14 in replacement of Level Crossing no. 484-A near Nazibabad Railway Station on State Highway no. 47 for Northern Railway.**

**Design of 16m+30.6m+16m long bridge with 63D skew which includes PSC and RCC super structure, RCC Piers resting on Pile Foundation.**

- **Design of Super Structure for Three small bridges under Punjab State Road Sector Project for Punjab Roads and Bridges Development Board.**

**Design of RCC type super structure of spans 13.5m, 11.5m and 11.5m.**

- **Design of Suspension Foot Bridge at Dhari (166.5m), Papdasu (110m) and Malyasu (98m) over Alaknanda River under AHPCL's 330MW Hydroelectric Project at Srinagar, Uttarakhand for Alaknanda Hydro Power Company.**

**Design of Steel super structure, Steel Towers, Pier and Anchor Blocks.**

- Design of 144m long Prestressed Concrete Bridge over river ladhiya at km 34.5 on road tanakpur – tawaghat under project shivalik in state of uttarakhand for Directorate General Border Roads.

Design of PSC Box (36m+44m+28m+36m) type super structure, RCC Abutments and Pier resting on Open Foundation.

- Design of 224m long major PMT curved bridge with open foundation over dhundi nallah at km 7.0 on approach road to south portal of rohtang tunnel under project Deepak in Himanchal Pradesh for Directorate General Border Roads.

Design of PSC Box (42.7mx3) and 3 span continuous RCC box type super structure, RCC Abutments and Pier resting on Open Foundation.

- Design of 75m long Balanced Cantilever Box Girder Bridge over Ravi River on Bakani Dharbeta Road at km 0/010, H.P. for PWD Himachal Pradesh.

Design of PSC Box Cantilever type super structure, RCC Abutments and Pier resting on Open Foundation.

- Design of 126m long PSC Box Type Continuous Cantilever Bridge Over Sutlej River at Charonta near village Moin H.P. for PWD Himachal Pradesh.

Design of PSC Box Cantilever super structure, RCC Abutments and Pier resting on Open Foundation.

- Design of 90m long Balanced Cantilever Box Girder Bridge over Beas River at Bhootnath, Kullu H.P. for PWD Himachal Pradesh.

Design of PSC Box Cantilever super structure, RCC Abutments and Pier resting on Open Foundation.

- Design of 145m span stiffened Suspension Foot Bridge of Jeepable standard over Sutlej River at Thalli in Tahsil Sunni Distt Shimla H.P. for PWD Himachal Pradesh.

Design of Steel super structure and towers, Pier and Anchor Blocks.

- Design of Road Under Bridges and Subway at level crossing no C-206 at Mansa (Firozpur Bhatinda – Delhi Railway Line) for PWD (B&R) Punjab.

Design of RCC U frame for RUB portion and RCC Box for subway portion.

- Design of ROB at level crossing no. B-208 on Delhi-Firozpur Railway Line on Mansa-Sardulgarh crossing road at mansa for PWD (B&R) Punjab.

Design of 253m long bridge with four span continuous module type super structure, RCC Abutment and Pier resting on Pile Foundation.

- Design of 50m long PSC Box Bridge over Sanjauli Dhalli bypass road at RD. 150/950 of MRR road via Lakkar Bazar to IGMN Nallah for PWD Himachal Pradesh.

Design of PSC super structure, RCC Abutments resting on Open Foundation.

- Design of various Bridges for Jammu and Kashmir Government / Asia Development Bank.
  1. Design of, 48m Truss type super structure, RCC Abutments resting on Pile Foundation, Yaroo Bridge on Mawar Nallah in Dist Kupwara, Kashmir.
  2. Design of, 26m c/c Steel Plate super structure, RCC Abutments resting on Pile foundation, Budgam Bridge over Budgam nallah near Town Hall, Budgam, Kashmir.
  3. Design of, 18m c/c Steel Plate super structure, RCC Abutments resting on Open foundation, Gundaltara Bridge over Mullree nallah in Gundaltara dist, Kashmir.
  4. Design of, 32m c/c PSC super structure, RCC Abutments resting on Open foundation, Hugam Bridge over nallah Aadwani in Anantnag dist, Kashmir.
  5. Design of, 26m (10x2+6) c/c Slab super structure, RCC Abutments and Pier resting on Pile foundation, Kadlabal Bridge at Kadlabal Lasjan Road, Padshahibagh in Budgam dist, Kashmir.
  6. Design of, 66m (22x3) c/c Steel Plate super structure, RCC Abutments and Pier resting on Open foundation, Khanthpora Bridge at Khanthpora in Kupwara dist, Kashmir.
  7. Design of, 54m (18x3) c/c Steel Plate super structure, RCC Abutments and Pier resting on Open foundation, Khumiriyal Bridge at Khumiriyal Shumiriyal in Kupwara dist, Kashmir.
  8. Design of, 18m c/c Steel Plate super structure, RCC Abutments resting on Pile foundation, Laktipora Bridge over nallah Momand at Laktipora in Anantnag dist, Kashmir.
  9. Design of, 22m c/c Steel Plate super structure, RCC Abutments resting on Pile foundation, Sail Bridge over nallah Aripal in Pulwama dist, Kashmir.
  10. Design of, 40m c/c PSC super structure, RCC Abutments resting on Open foundation, Saidpora Bridge over nallah Maloori in Saidpora dist, Kashmir.
  11. Design of, 26m c/c Steel Plate super structure, RCC Abutments resting on Open foundation, Teilbal Bridge over nallah Teilbal in Teilbal dist, Kashmir.
  12. Design of, 32m c/c PSC super structure, RCC Abutments resting on Pile foundation, Yarbug Bridge over nallah Hammal in Baramulla dist, Kashmir.

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**Languages:**

	<i>Speak</i>	<i>Read</i>	<i>Write</i>
English & Hindi	Excellent	Excellent	Excellent

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**CERTIFICATION:**

I, the undersigned, certify that to the best of my knowledge and belief, this biodata correctly describes myself, my qualifications and my experience.

(Ravi Kumar Agrahari)

Place: Shakar Pur, New Delhi