ULTRA-HIGH-PERFORMANCE FIBER REINFORCED CONCRETE (UHPFRC) BRIDGES



Bridge at Latur
May 2021



VOP @ Chandni Chowk – Pune
May 2023

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Introduction

Infrastructure is crucially important sector for the overall development of any country. The role of technology has emerged in current times like never before.

Make in India is a major national programme of the Government of India

To move forward to achieve the Governments Mission and Vision for National growth, initiatives are taken for Innovative construction materials and technologies for building world class Infrastructure for the whole Population.

Introduction of New Concrete- Ultra High Performance Fibre Reinforced Concrete

One of the biggest breakthroughs of 21st century is the invention of **Ultra High Performance Fibre Reinforced Concrete (UHPFRC)** .

In a world constantly on the move, journey towards more sustainable infrastructure is one well worth investment.

LSSPL, have explored the technology of Ultra High-Performance Fibre Reinforced Concrete to support the vision of sustainable construction. Producing high quality UHPFRC precast components with superior durability and prolonged service life which helps in reducing embodied energy and CO2 emissions compared to standard products with low carbon footprint.

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Summary

UHPFRC (Ultra-High-Performance Fiber-Reinforced Concrete) is an advanced composite material for sustainable infrastructure.

UHPFRC represents a significant technological leap in construction materials, offering a powerful combination of high strength, durability, and ductility. Long-term economic and performance advantages make it a compelling choice for demanding applications. UHPFRC is set to expand its role in innovative and sustainable construction

UHPFRC offers significant advantages over traditional concrete for demanding engineering applications.

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Let's Move Forward to More Sustainable Infrastructures

Proud to introduce as advanced construction material engineered to be extremely Durable and Environmentally friendly and to inspire the creation of innovative construction materials

- **Quick Facts of UHPFRC Concrete**
  - Is typically at least 4 times stronger than conventional M40 grade normal strength concrete
  - Is 100 times more Durable in terms of impermeability, water and carbon resistance
  - Is 100 times higher in fracture energy (Impact resistance & ductility)
  - 35 to 35% less weight of structure than conventional structure

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Let's Move Forward to More Sustainable Infrastructures

- Is Green material and supports the concept of sustainable development
- Is economical solution for life cycle cost performance
- UHPFRC technology for long span bridge construction is world wide used in other countries since many years
- World wide more than 300 bridge are constructed with this technology.
- In absence of Indian standard codal provisions, technology was not used in India till the time.
- To promote innovations and new materials/techniques for more sustainable solutions Govt has taken strong initiation to accept and adopt the successful technologies which are under implementation in the other countries.

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Features of UHPFRC

Parameter	Conventional Concrete	UHPFRC
Compressive Strength	50Mpa	155 Mpa
Tensile Strength	4 Mpa	10 Mpa
Flexural Strength	10 Mpa	30 Mpa

- Eliminates use of Conventional steel reinforcement Bars
- Eliminates use of Coarse Aggregates
- Free Flow and self-compacting

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Advantages of UHPFRC

- Replacement of conventional construction
  - UHPFRC bridge Girders with 30 to 35% lighter weights
  - Excellent compressive strength/Tensile strength/flexural strength/increased durability/less creep and shrinkage, enables construction of bridge superstructure up to 100m clear span
  - Higher span lengths (Distance between 2 Piers), reduce number of Foundations and Sub structure
  - Reduces the construction period
  - Ensures high degree of quality since the products are precast and manufactures at specialized casting plant

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UHPFRC- ESG Compliance

With lower Carbon foot print, UHPFRC is ESG Complying Concrete application

- E- Environmental friendly since lower concrete quantities are consumed with longer service life
- S- Social benefits since lower project Duration
- G- Good Governance since the product is made in factory controlled environment ensuring highest degree of Quality and following best industry practices

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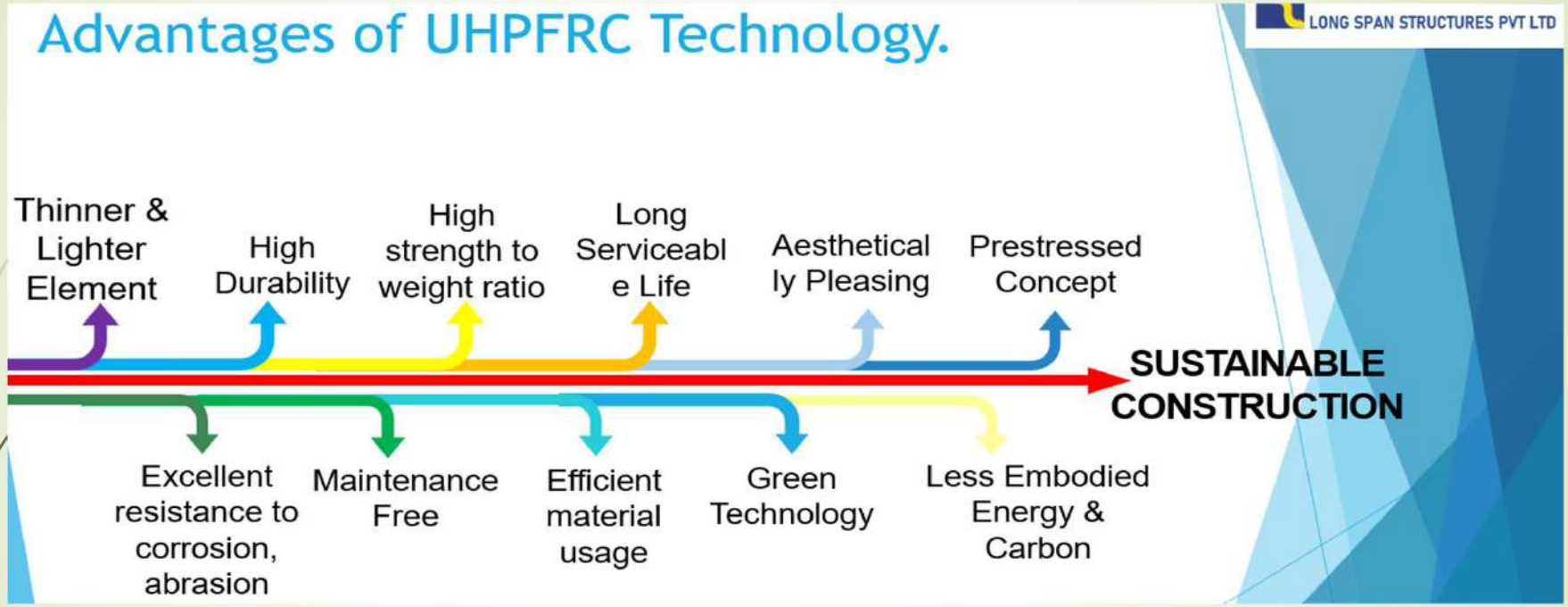
Advantages of UHPFRC Technology.



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About us

We Long Span Structures India Pvt Ltd (LSSPL) are -

- Innovation and Technology Driven company
- Engaged in Design, Develop Applications, manufacture UHPC specialized components for infrastructure applications
- Equipped with dedicated testing laboratory with R&D team
- Association with a renowned International Design Consultancy HSS Engineering, Malaysia and various prominent design consultants in India.

Technology Partner- DURA Technology Snd Bhd, Malaysia

LSSPL has executed Technology sharing arrangement with Dura Technology for implementation of this patented technology in India and SARC Nations. Also entered into agreement with DURA Technology for Global operations.

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Our recent Achievement

The company has a proven track record of completing diverse variety of projects across India

Longspan - Snippets from completed & ongoing projects



Lane extension of 2-lane stretch
Dharampuri



Bridge overlay
Mumbra



Rehabilitation of Bridge
Turbhe



Viaducts
Pune Mumbai Expressway (Missing link)



ROB over canal
Panvel Mahad – Panjim road



Pavement overlay
Mumbai – Pune Expressway



ROB over canal
Samruddhi Expressway



Beams & columns
Nanoli Speed way – Formula 3

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About DURA

International Awards and Recognitions

DURA Technology Malaysia's primary recent recognition is the First Place award at the 2024 ACI Excellence in Concrete Construction Awards for their 105-meter span Ultra-High Performance Concrete (UHPC) bridge project in Selangor. This prestigious award from the American Concrete Institute (ACI) highlights DURA's innovative use of UHPC for strength, sustainability, and efficiency in bridge construction.

Awards received by technology partner DURA


Best Innovation award- Batu Bridge 2023


Best innovation award UHPC SPE 2023


Excellence award – Sungai Perak 2022



Design awards 2024



Innovation award 2021

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Proof-of-concept has been established globally with UHPFRC use across various Roadways and Railway projects across Americas, Europa and Asia



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Technology Implementation in India

- Upon receipt of Approvals, Various Indian Authorities such as MoRTH, NHAI, NHIDCL, State PWD's, CIDCO, MMRDA, have started using this technology.

- With UHPFRC production facilities at Pune and Nagpur, LSSPL is addressing the demands of Precast UHPFRC components in the respective Territories. However, to make availability of this concrete technology at every corner of country, multiple specialized UHPFRC production facilities are required.

MoRTH Approval dated 22nd February 2022.

- Use of Ultra High-Performance Fiber Reinforced Concrete (UHPFRC) in Design & Construction of Structures/Bridges of National Highways

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File No.RW/NH-33049/01/2020-S&R (B) Pt.
Government of India
Ministry of Road Transport & Highways
(S&R (P&B/New Technology) Zone)
Transport Bhawan, 1, Parliament Street, New Delhi-110001

Dated: 22th February, 2022

CIRCULAR

To,

1. The Chief Secretaries of all the State Governments/ UTs.
2. The Principal Secretaries/ Secretaries of all States/ UTs Public Works Department/ Road Construction Department/ Highways Department (dealing with National Highways and other centrally sponsored schemes).
3. The Chairman, National Highways Authority of India, G-5 & 6, Sector-10, Dwarka, New Delhi-110 075.
4. The Managing Director, NHIDCL, PTI Building, New Delhi-110001.
5. The Director General (Border Roads), Seema Sadak Bhawan, Ring Road, New Delhi- 110 010.
6. All Engineers-in-Chief and Chief Engineers of Public Works Department of States/ UTs/ Road Construction Department/ Highways Departments (dealing with National Highways and other centrally sponsored schemes).
7. All CE-ROs, ROs and ELOs of the Ministry.

Subject: - Use of Ultra High Performance Fiber Reinforced Concrete (UHPFRC) in Design & Construction of Structures/Bridges of National Highways - Regarding

Madam/Sir,

Advanced structural design guidelines IRC: 112-2020 "Code of Practice for Concrete Road Bridges" and analysis software are presently being used in India. These are in tune with the International codes. However, its full exploitation to design the durable cost-effective slender sections are being made in a very limited manner. Therefore, need is felt for adoption of State-of-Art advanced level of bridge technologies for use in National Highway projects so that widespread usages of more cost effective sustainable design solutions and implementation methodologies are encouraged.

2. Concrete up to M50 grade is generally being used for bridges and structures on National Highways in India. Indian Roads Congress (IRC) has published IRC: SP: 70-2016 "Guidelines for the Use of High Performance Concrete in Bridges" which provides for use of High Performance Concrete/Self-Compacted Concrete up to M90 grade. It is, however, observed that use of High Performance Concrete/Self-Compacted Concrete (M60 to M90 grade) is limited to a few long span extra dose/cable stayed bridges only.

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3. Properly designed Ultra-high-performance fiber reinforced concrete (UHPFRC) which have following superior characteristics are being used in some developed countries:

- Available up to Grade M150MPa
- Available up to ultimate tensile strength 8MPa and ultimate flexural strength 30MPa.
- At least 4-6 times stronger than normal concrete (in compressive strength)
- Much more durable than conventional concrete
- Longer service life
- Reduced deck height
- Lower carbon footprint

4. Recently UHPFRC girders have been used in Sole River Bridge at Km 42+050 of NH -752K near Latur (2x56m span). Few more bridges/viaducts of span varying from 50-72m have been approved for construction. A bridge over Ganga River parallel to JP Setu in Patna is under planning that envisages use of UHPFRC girders for 100m span.

5. On careful consideration of the advantages of UHPFRC, it is found that UHPFRC girders may be preferred in long span bridges i.e. span length ranging from 50m to 100m in India. In the urban viaduct structures, where generally 30m standard span is used, span length can be increased to 60m with use of UHPFRC. It can also be used for smaller span.

6. To promote use of UHPFRC girders in bridges and structures in India, following has been decided:

6.1. While preparing detailed project report, Consultants shall evaluate both traditional PSC girders and UHPFRC girders for elevated corridors/ viaduct sections and bridges having length 500 m and above and consider the preferred alternative in cost estimate and analysis. Similar exercise shall also be done if aggregate length of bridges having span length greater than 30m and viaduct sections is greater than 2000m in a single project.

6.2. The French design standard and material specification to be referred are NF P18-710- " National addition to Euro code 2 – Design of concrete structures: specific rules for Ultra-High Performance Fibre-Reinforced Concrete (UHPFRC) & NF P18-470- "Concrete - Ultra-High Performance Fiber-Reinforced Concrete - Specifications, Performance, Production and Conformity".

6.3. Concessionaire/Contractor is free to use UHPFRC girders in its design. IE/AE shall review and approve the design without any prejudice.

6.4. Although usage of UHPFRC is expected to result in significant cost savings and reduction in life cycle costs, it is decided at this stage that the cost implications of

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using the technology may be fully absorbed within the Agreement cost of the project until further orders and the Authority (i.e. executing agency) shall neither demand for any share of cost reduction benefits nor pay/compensate for additional expenses incurred by the Concessionaire / EPC Contractors as per the Ministry's policy circulated vide letter No. RW/NH-33044/18/2020-S&R (P&B) dated 14.12.2020 even if the changes are accompanied by reduction in number of foundations and piers.

6.5. Defect liability period of such bridges/structures will be 10 years irrespective of whether defect liability period of the project is 5 years.

6.6 Concessionaire/contractor shall submit a detailed bridge inspection plan on completion of the construction works to the Ministry for approval. Concessionaire/contractor, IE/AE, Authority shall jointly conduct periodic inspection of the structure and will prepare a condition monitoring report. This report shall be prepared and submitted to the Ministry on half-yearly basis till completion of the defect liability period unless otherwise decided by the Ministry.

7. It is requested that the contents of the letter may be brought into the notice of all concerned for needful compliance.

8. This issues with the approval of Competent Authority.

विदुर कान्त झा / Bidur Kant Jha
निदेशक / Director
सड़क परिवहन एवं राजमार्ग मंत्रालय
Ministry of Road Transport & Highways
भारत सरकार / Government of India
नई दिल्ली / New Delhi-110001

Yours faithfully,
Bidur kant Jha
22-02-2022
(Bidur Kant Jha)
Director
(New Technology for Highway development)
For DG (RD) & SS

Copy to:
1. All CEs in the Ministry of Road Transport & Highways
2. All ROs of the Ministry of Road Transport & Highways
3. The Secretary General, Indian Roads Congress
4. Technical circular file of S&R (P&B) Section
5. NIC-for uploading on Ministry's website under "What's new"

Copy for information and necessary action to:
1. Sr. PPS to Secretary (RT&H)
2. PPS to DG (RD) & SS
3. Sr. PPS/ PPS to Addl. Secretary (Road Safety)/ Addl. Secretary (RT&H & LA)
4. Sr. PPS/ PPS to AS&FA
5. Sr. PPS/ PPS to ADG (SKN) / ADG (RP)/ ADG(DS)
6. Sr. PPS/ PPS to JS (RT&MVL)/ JS (EIC) / JS (Logistics)/ JS (NHIDCL)

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RDSO , Ministry of Indian Railways Guidelines for UHPFRC dated 8th march 2024.

- Guidelines for Ultra High Performance concrete in Indian Railway Structures

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File No.RDSO-BnS0ESTR(CB-1)/5/2020-O/o ED/STRUCTURES/RDSO

वी.के. पाण्डेय
V.K. Pandey
कार्यकारी निदेशक/पु०एवंसं०-II
Executive Director/B&S-II

भारत सरकार–रेल मंत्रालय
अनुसन्धान अभिकल्प और मानक संगठन
लखनऊ–226011
Government of India-Ministry of Railways
Research Designs & Standards Organisation
Lucknow- 226011
Phone/ Fax: 0522-2465704
Email: edbns2rdso@gmail.com

पत्रांक सं: CBS/PCB

दिनांक: 08.03.2024

Principal Chief Engineers:

1. Central Railway, Mumbai CST - 400001
2. Eastern Railway, Fairlie Place, Kolkata - 700001
3. East Central Railway, Hazipur - 844101
4. East Coast Railway, Bhubaneshwar - 751016
5. Northern Railway, Baroda House, New Delhi - 110001
6. North Central Railway, Allahabad - 211001
7. North Eastern Railway, Gorakhpur - 273001
8. Northeast Frontier Railway, Maligaon, Guwahati - 781061
9. North Western Railway, Jaipur - 302001
10. Southern Railway, Park Town, Chennai - 600003
11. South Central Railway, Rail Nilayam, Secunderabad - 500371
12. South East Central Railway, Bilaspur - 495004
13. South Eastern Railway, Garden Reach, Kolkata - 700043
14. South West Railway, Hubli - 580023
15. Western Railway, Mumbai - 400020
16. West Central Railway, Jabalpur - 482001
17. Metro Railway, Jawaharlal Nehru Road, Kolkata – 700071

विषय: Guidelines for use of Ultra High Performance Concrete in Railway Structures

संदर्भ: 1. Railway Board's letter No 2022/19/CE-III/BR/RDSO/1 Dated 19.10.2023.
2. RDSO letter No. CBS/PCB Dated 13.02.2024.

1. Railway Board vide Ref.1 above had entrusted Bridge & Structure Directorate, RDSO to prepare a guideline for use of Ultra High Performance Concrete in Railway Structures.
2. The draft guideline was sent to all Zonal Railways and Railway PSU's for their Feedback/comment vide Ref.2 above. Guideline have been revised based on feedback received.
3. Please find enclosed herewith the "*Guidelines for use of Ultra High Performance Concrete in Railway Structures*" as BS-136. The copy of the same is enclosed herewith for information & necessary action please.
   It may also be accessed at Railnet link
   http://10.100.2.4/drawing/frmPage.aspx?id=15

संलग्नक: As above

08/03/24

(विनय कृष्ण पांडेय)
(Vinay Krishna Pandey)
कार्यकारी निदेशक /पुल एवं संरचना-II
Executive Director/B&S-II

विनय कृष्ण पाण्डेय
Vinay Krishna Pandey
कार्यकारी निदेशक/पु० एवं सं०-II
Executive Director/B&S-II

भारत सरकार-रेल मंत्रालय
अनुसन्धान अभिकल्प और मानक संगठन
लखनऊ-226011
Government of India-Ministry of Railways
Research Designs & Standards Organisation
Lucknow- 226011
Phone/ Fax : 0522-2465704
Email : edbns2rdso@gmail.com

संख्या: CBS/Codes /A&C

दिनांक: 19.07.2024

Principal Chief Engineers:

1. Central Railway, Mumbai CST - 400001
2. Eastern Railway, Fairlie Place, Kolkata - 700001
3. East Central Railway, Hazipur - 844101
4. East Coast Railway, Bhubaneshwar - 751016
5. Northern Railway, Baroda House, New Delhi - 110001
6. North Central Railway, Allahabad - 211001
7. North Eastern Railway, Gorakhpur - 273001
8. Northeast Frontier Railway, Maligaon, Guwahati - 781061
9. North Western Railway, Jaipur - 302001
10. Southern Railway, Park Town, Chennai - 600003
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14. South West Railway, Hubli - 580023
15. Western Railway, Mumbai - 400020
16. West Central Railway, Jabalpur - 482001
17. Metro Railway, Jawaharlal Nehru Road, Kolkata – 700071

विषय : **Addendum & Corrigendum Slip No. 11 to "Indian Railway Standard Code of Practice for Plain, Reinforced & Prestressed Concrete for General Bridge Construction (Concrete Bridge Code)".**

संदर्भ : EDCE/B&S/Railway Board's letter No.2020/15/CE-III/BR/Correction Slips(E-3320152), dated 18.07.2024.

On above subject, Addendum & Corrigendum Slip No. 11 to "Indian Railway Standard Code of Practice for Plain, Reinforced & Prestressed Concrete for General Bridge Construction (Concrete Bridge Code)" regarding addition of new Para **5.8 Ultra High Performance Concrete**, duly approved by Railway Board vide letter under reference, is enclosed for information and necessary action please.

Receipt of this letter may please be acknowledged.

संलग्नक: As above.

19/07/24

(वी.के. पाण्डेय)
(V. K. Pandey)
कार्यकारी निदेशक/पु०एवंसं०-II
Executive Director/B&S-II

प्रतिलिपि:

(A) 1. Additional Member (Civil Engg.) Railway Board, Rail Bhawan, New Delhi - 110001

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MoRTH Precast Policy Circular dated 8th April 2022.

National Highway Pre-cast Concrete Policy

- Ministry of Road Transport & Highways issued circular stating 25% components of projects shall be factory manufactured Precast components as Mandatory

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File No.RW/NH-34049/01/2020-S&R (B)
Government of India
Ministry of Road Transport & Highways
(S&R (P&B/New Technology) Zone)
Transport Bhawan, 1, Parliament Street, New Delhi-110001

Dated: 08th April, 2022

CIRCULAR

To

1. The Chief Secretaries of all the State Governments/ UTs.
2. The Principal Secretaries/ Secretaries of all States/ UTs Public Works Department/ Road Construction Department/ Highways Department (dealing with National Highways and other centrally sponsored schemes).
3. The Chairman, National Highways Authority of India, G-5 & 6, Sector-10, Dwarka, New Delhi-110 075.
4. The Managing Director, NHIDCL, PTI Building, New Delhi-110001.
5. The Director General (Border Roads), Seema Sadak Bhawan, Ring Road, New Delhi-110 010.
6. All Engineers-in-Chief and Chief Engineers of Public Works Department of States/ UTs/ Road Construction Department/ Highways Departments (dealing with National Highways and other centrally sponsored schemes).
7. All CE-ROs, ROs and ELOs of the Ministry.

Subject: - National Highway Pre-cast Concrete Policy - Reg

Madam/Sir,

Industrialised Pre-cast Concrete (factory manufactured pre-cast concrete elements) has the benefits of all-weather and fast construction, reliable quality & enhanced performance durability, aesthetics due to uniformity in appearance and minimum user time delay/reduced carbon emission/reduced noise & air pollution due to reduced construction activities at site, etc. To add to that, it will also play an integral role in accelerating the growth of the MSME sector. To harness the benefits of pre-fabrication in construction of National Highways, Expressways & Other Centrally Sponsored Road Projects, following policy decisions have been taken:

2. Contract/Concession agreement document shall include the provision of mandatory use of factory manufactured pre-cast concrete elements in projects within 100 km radius of Pre-cast factory. The minimum mandatory usage should be 25% of total concrete volume other than the foundations & sub-structures of Bridges/Viaduct/RoB. Any relaxation may be granted by Authority only if the contractor/concessionaire is able to demonstrate that the manufacturer(s) is not able to provide such products matching to the works programme of the contractor or the prices demanded by the manufacturer is more than the prices derived for cast-in-situ condition at the rates of SoR prevailing on 28th days before the bid due date.

3. Standardization is the key to promote the use of pre-cast concrete elements to take advantage of volumes and repetitive use of molds. Therefore, It is beneficial to keep the spans/sizes of different structures as uniform as possible.

4. Design and Construction of pre-cast concrete elements will be done as per relevant IRC/BIS standards/guidelines/codes furthermore taking into consideration expected

Bidur Kant Jha.

handling/lifting stresses, etc. Any international guidelines such as AASHTO, FHWA (Accelerated Bridge Construction Guidelines), Japan & Euro codes, may be followed in case of any gaps in IRC/BIS standards/ guidelines/codes till such time IRC/BIS guidelines are developed.

5. To start with Quality Council of India (QCI) shall be entrusted to certify pre-cast concrete factory. As the number of factories go on increasing, MoRT&H may entrust certification to other agencies like NCCBM/RDSO/IITs etc. Certification shall not be required for pre-casting being done at Project site.

6. The pre-cast factory shall have minimum facility of fully automatic RMC plant for better quality, arrangement for steam curing, mechanical handling of concrete and pre-cast components, bar bending machines, stacking yard, in-house design team and NABL accredited quality control laboratory, RO plant for water purification etc.

7. It is requested that the contents of the letter may be brought into the notice of all concerned for needful compliance.

7. This issues with the approval of Competent Authority.

Yours sincerely,
Bidur Kant Jha
08.04.2022
(Bidur Kant Jha)
Director
(New Technology for Highway development)
For DG (RD) & SS

Copy to:
1. All CEs in the Ministry of Road Transport & Highways
2. All ROs of the Ministry of Road Transport & Highways
3. The Secretary General, Indian Roads Congress
4. Technical circular file of S&R (P&B) Section
5. NIC-for uploading on Ministry's website under "What's new"

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5. Sr. PPS/ PPS to ADG (SKN) / ADG (RP)/ ADG(DS)
6. Sr. PPS/ PPS to JS (RT&MVL)/ JS (EIC) / JS (Logistics)/ JS (NHIDCL)

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QMS Certifications



Certificate No.: 001-23010-Q
Certificate No.: 001-23010-E
Certificate No.: 001-23010-O

Integrated Management System

Certificate of Approval

This is to certify that the **Integrated Management System**

at

Long Span Structures Pvt. Ltd.

Sr No 85/5/1, Near Mukai Chowk, Kiwale, Tal. Haveli, Pune - 412 101, Maharashtra, India.

has been examined by Assessors of **QMS International Certifications Pvt. Ltd.** and found to be conforming to the requirements of

ISO 9001:2015, ISO 14001:2015, ISO 45001:2018

In respect of the following activities:

Design, Manufacture and Supply of Ultra High Performance Reinforced Concrete for various Infrastructure Development Application

Current Issue Date 17/10/2023, Valid till 16/10/2026*
Original Certification 17/10/2023

Sanjay Kumar Kaushik
Managing Director

QMS International Certifications Pvt. Ltd
AFF-1, 'Silven Enclave', 4/7,
Raghavendra Colony, Yeshwanthpur,
Bengaluru - 560 022, Karnataka, INDIA.
E-mail : qmsosl@gmail.com
Web : www.qms-int.com

QMS International Certifications Pty Ltd
6/74, Kensington Terrace, Toowong,
Brisbane 4066, Queensland, Australia

JAS-ANZ
Accreditation No. : MS478514IB

* Subject to compliance with requirements specified in Service Specification & Agreement



LONGSPAN STRUCTURES

LONGSPAN STRUCTURES PVT. LTD.

IMS POLICY

We at Long Span Structures Pvt. Ltd. provide Design, Manufacture and Supply of pre-casting Girders with UHPFRC technology.

We shall continually Strive to provide Quality Products and Services to our customers and good Environment, Health and Safety to our employees.

We are committed to:

- Enhance customer satisfaction levels.
- Optimum utilization of our resources for productivity and cost effectiveness.
- Comply with all applicable legal requirements and other requirements.
- Consultation & participation of workers.
- Conserve natural resources & Eco-friendly waste disposal management to prevent pollution.
- Prevent injury and ill health by minimizing hazards & risks associated with the activities.
- Continually improve the Integrated Management System performance.
- Provide a framework for establishing and reviewing Integrated Management System objectives.

Satyajit Nimbalkar
CEO

Date: 1.12.2022, Rev No: 0

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Current Status

- Many inquiries across the country for UHPFRC products are received
- To address the huge demands, number of production facilities across the country needs to be made operational.
- Ministry of Roads & Highways , Govt of India has accorded Blanket approval for implementation of this concrete technology across the country.
- Govt of India has made mandatory to implement 25% of infra project component as Precast, this has created huge future potential for precast Industry.
- Looking into Current planned infrastructure development in India, more than 25 Nos of UHPFRC production facilities will be required across India to cater the potential demand of UHPFRC components for various projects

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Current Projects

- Completed
- In Progress
- In Proposal Stage

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M/s UNIQUE UHPC INDIA LLP

LIST OF UHPFRC Project Executed and Under Progress

Bridge No.	Bridge Name	Contractor	Authority	Span Arrangement (m)	Total Length (m)	Total Width (m)	Status	Quantity of Girder (cum)	GIRDER Type
1	Latur Br._SDPL	Shinde Developers Pvt Ltd	MORTH Through MSRDC	2 x 55.5	111	16	Completed	Completed	BBG2400-55.5m
2	Mahad Br. CH161+400_SDPL	Shinde Developers Pvt Ltd	PWD NHAI Division	1 x 33.9	33.9	16	Completed	70.3	BT1500-33.9m
3	Kharwandi CH.18+889_AC Shaikh	AC Shaikh Contractors	PWD NHAI Division	2 x 30	60	16	Completed	124.5	BT1500-30m
4	Samruddhi Br1. CH531+068 LHS_Raj Infra	Raj InfrastructuresPvt Ltd	MSRDC	1 x 52	52	35	Completed	210.3	UBG2250-51.8m
5	Samruddhi Br1. CH531+107 RHS_Raj Infra	Raj InfrastructuresPvt Ltd	MSRDC	1 x 52	52	35	Completed	210.3	UBG2250-51.8m
6	Samruddhi Br2. CH531+968 _Raj Infra	Raj InfrastructuresPvt Ltd	MSRDC	1 x 52	52	35	Completed	420.6	UBG2250-51.8m
7	Taloja Creek Br.-1_Taloja Mumbai	Shinde Developers Pvt Ltd	PWD Maharashtra	2 x 33	66	8.25	Completed	82.2	BT1500 - 32.6 m
8	Dharmapuri- 145+635_Palkhi Mahamarg_RKCIPL	RKC Infrastructure Pvt Ltd	NHAI	1 x 102.6	102.6	16	Completed	578.7	UBG4000-102.6m
9	Dharmapuri- 137+979_Palkhi Mahamarg_RKCIPL	RKC Infrastructure Pvt Ltd	NHAI	1 x 60	60	32	Completed	469.4	UBG3000-57.5M
10	Dharmapuri- 142+465 (MCW) _Palkhi Mahamarg_RKCIPL	RKC Infrastructure Pvt Ltd	NHAI	3 x 35	105	21	Completed	261.5	BT1500-34m
11	Dharmapuri- 142+465 (SR)_Palkhi Mahamarg_RKCIPL	RKC Infrastructure Pvt Ltd	NHAI	3 x 35	105	21.6	Completed	261.5	BT1500-34m
12	Dharmapuri- 138+875_Palkhi Mahamarg_RKCIPL	RKC Infrastructure Pvt Ltd	NHAI	1 x 60	60	16	Completed	234.7	UBG3000-57.5M
13	Dharmapuri - 145+902_Palkhi Mahamarg_RKCIPL	RKC Infrastructure Pvt Ltd	NHAI	1 x 34	34	32	Completed	141.1	BT1500-34m
14	Dharmapuri - 124+630 (MCW)_Palkhi Mahamarg_RKCIPL	RKC Infrastructure Pvt Ltd	NHAI	2 x 30	60	21	Completed	149.4	BT1500-30m
15	Dharmapuri - 124+630 (SR)_Palkhi Mahamarg_RKCIPL	RKC Infrastructure Pvt Ltd	NHAI	2 x 30	60	21.6	Completed	149.4	BT1500-30m
16	Dharmapuri - 127+538_Palkhi Mahamarg_RKCIPL	RKC Infrastructure Pvt Ltd	NHAI	2 x 29	58	32	Completed	96.3	BT1500-29m
17	Dharmapuri - 129+506_Palkhi Mahamarg_RKCIPL	RKC Infrastructure Pvt Ltd	NHAI	1 x 35	35	32	Completed	145.3	BT1500-35m
18	Dharmapuri - 141+350 _RKCIPL	RKC Infrastructure Pvt Ltd	NHAI	2 x 32.5	65	22	Completed	215.8	BT1500-32.5m
19	Dharmapuri - VUP Ch. 119+160_RKCIPL	RKC Infrastructure Pvt Ltd	NHAI	2 x 10.5	22	21.5	Completed	44.9	IB850 - 21.5 m
20	Dharmapuri - VUP Ch. 136+400_RKCIPL	RKC Infrastructure Pvt Ltd	NHAI	2 x 10.5	22	21.5	Completed	44.9	IB850 - 21.5 m
21	Dharmapuri - VUP Ch. 152+700_RKCIPL	RKC Infrastructure Pvt Ltd	NHAI	2 x 10.5	22	21.5	Completed	44.9	IB850 - 21.5 m
22	Dharmapuri - VUP Ch. 131+300_RKCIPL	RKC Infrastructure Pvt Ltd	NHAI	2 x 10.5	22	21.5	Completed	44.9	IB850 - 21.5 m
23	Vehicular Overpass Chandni Chowk (Main span)_NCC	NCC Limited	NHAI	1 x 57	57	38.6	Completed	518.6	UBG2250 - 57m
24	Vehicular Overpass Chandni Chowk (Ramp)_NCC	NCC Limited	NHAI	6 x 23 - 35m	193	16	Completed	381.9	BT1500 -30m
25	RTO Flyover P8-P9_Nagpur_T&T	T and T Projectcs	PWD NHAI Division	2 x 65	65	17.2	Completed	254.3	UBG3000-65M
26	RTO Flyover P23-P24_Nagpur_T&T	T and T Projectcs	PWD NHAI Division	2 x 65	65	17.2	Completed	254.3	UBG3000-65M
27	Turbhe ROB Vashi-Panvel (Mumbai)-SMC infra	SMC Infra Pvt Ltd	PWD Maharashtra	17 x 30	510	11.6289	Completed	846.6	BT1500 -30m
28	Turbhe ROB Vashi-Thane (Mumbai)-SMC infra	SMC Infra Pvt Ltd	PWD Maharashtra	10 x 30	300	11.6289	Completed	498.0	BT1500 -30m
29	Turbhe ROB Vashi-Juinagar (Mumbai)_SMC infra	SMC Infra Pvt Ltd	PWD Maharashtra	11 x 30	330	11.6289	Completed	547.8	BT1500 -30m
30	Pandoh Nerchwok 206+650_KMC	KMC Constrcution Limited	MoRTH	1 x 32	32	25	Completed	106.2	BT1500 -32m
31	Pandoh Nerchwok 207+270_KMC	KMC Constrcution Limited	MoRTH	1 x 20	20	25	Completed	66.4	BT1500 -20m
32	Pandoh Nerchwok 209+510_KMC	KMC Constrcution Limited	MoRTH	1 x 39	39	25	Completed	129.5	BT1500 -39m
33	Raipur, Chhattisgarh 155+340_SEPC	SEPC Limited	MoRTH	2 x 35	70	12.9	Completed	145.3	BT1500 -35m
34	Raipur, Chhattisgarh 147+970_SEPC	SEPC Limited	MoRTH	4 x 35	140	12.9	Completed	290.5	BT1500 -35m
35	Mumbra Bridge overlay_PWD	SMC Infra Pvt Ltd	PWD Maharashtra	50 x 30	1500	15	Completed	1200.0	Overlay
36	Indora Flyover_Nagpur_NCC	NCC Limited	NHAI	VARIOUS spans of 60 m, 80m and 90 m with total bridge length of 5950 m			Completed	5916.0	Various
37	Thirunavaya Bridge, Kerala-ULCC	ULCC	RBDCK, Govt of Kerala	13 x 62	806	11	Proposal stage	1329.9	mUBG3000
38	VUP on Solapur Hydrabad Highway (302+050)_TMPL	Triveni Mudrai Pvt Ltd	NHAI	2 x 20	40	2 x 16	Completed	161.8	BT1500 - 20m

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Bridge No.	Bridge Name	Contractor	Authority	Span Arrangement (m)	Total Length (m)	Total Width (m)	Status	Quantity of Girder (cum)	GIRDER Type
39	Extension to Major Bridge on Solapur Hydrabad Highway (322+450)_PBAIL	PBA Infra Limited	NHAI	2 x 32.24	64.48	3.5	Completed	53.5	BT1500-30m
40	Khambatki Viaduct NH-4 Pune-Satara	Gaytri Infrastructures Ltd	NHAI	1X30	30	14.5	Completed	124.5	BT1500-30m
41	UHPFRC Blocks for Testing	DRDO_Pune	DRDO	Various Sizes UHPFRC Blocks			Completed	18	3X3X2 Block
42	Mohal Alandi Section of Palki Mahamarg Bridge at Ch. 175+075_TIPL	Thakur Infraprojects Pvt Ltd	NHAI	1 x 55	55	2 x 16	Completed	312.7	UBG2250
43	Major Bridges on Kolhapur- Ratnagiri 4 Lane Highway_ J M Mhatre (83+975)_JMMIPL	J M Mhatre Infrastructures Pvt Ltd	NHAI	4x37.5	150	25	Completed	311.3	BT1500
44	Major Bridges on Kolhapur- Ratnagiri 4 Lane Highway_(84+645)_JMMIPL	J M Mhatre Infrastructures Pvt Ltd	NHAI	4x37.5	150	25	Completed	311.3	BT1500
45	Major Bridges on Kolhapur- Ratnagiri 4 Lane Highway 90+453_JMMIPL	J M Mhatre Infrastructures Pvt Ltd	NHAI	4x37.5	150	25	Completed	311.3	BT1500
46	Major Bridges on Kolhapur- Ratnagiri 4 Lane Highway 93+150_JMMIPL	J M Mhatre Infrastructures Pvt Ltd	NHAI	4x37.5	150	25	Completed	311.3	BT1500
47	Major Bridges on Kolhapur- Ratnagiri 4 Lane Highway 81+497_JMMIPL	J M Mhatre Infrastructures Pvt Ltd	NHAI	2x37.5+3x33.3	174.9	25	In Progress	362.9	BT1500
48	Major Bridges on Kolhapur- Ratnagiri 4 Lane Highway_89+380_JMMIPL	J M Mhatre Infrastructures Pvt Ltd	NHAI	4x37.5	150	25	Completed	311.3	BT1500
49	Major Bridges on Kolhapur- Ratnagiri 4 Lane Highway_90+900_JMMIPL	J M Mhatre Infrastructures Pvt Ltd	NHAI	4x37.5	150	25	Completed	311.3	BT1500
50	Major Bridges on Kolhapur- Ratnagiri 4 Lane Highway_91+155_JMMIPL	J M Mhatre Infrastructures Pvt Ltd	NHAI	4x37.5	150	25	In Progress	311.3	BT1500
51	Missing Link Project on Mumbai Pune Expressway._Mumbai Side_Koncretech (Navyuga)	Koncretech-Navyuga Engineering	Navyuga - MSRDC	8 x 25 + 35	235	24.95 x 2	Completed	767.0	BT1500-25m
52	Missing Link Project on Mumbai Pune Expressway_Pune Side_Koncretech (Navyuga)	Koncretech-Navyuga Engineering	Navyuga - MSRDC	8 x 25 + 35	235	24.95 x 2	Completed	767.0	BT1500-25m
53	Taloja Creek Br. (Reconstruction)	Unique UHPC Infra LLP	PWD, Maharashtra	2 x 67.06	134.12	13.55	In Progress	349.8	UBG3000 - 66.06
54	Taloja Creek Br. (Span Replacement)	Unique UHPC Infra LLP	PWD Maharashtra	2 x 33	66	8.25	Completed	80.8	BT1500 - 32.6 m
55	Bhoj Morbe Pkg. 17 Major Bridge CH-69 _Unique RKC	UNIQUE-RKC PROJECTS LLP	NHAI	3X33	99	25	Completed	566.9	BT1500 - 32.6 m
56	Bhoj Morbe Pkg. 17 Major Bridge CH-76 _Unique RKC	UNIQUE-RKC PROJECTS LLP	NHAI	1X33	33	25	Completed	189.0	BT1500 - 32.6 m
57	FORMULA 3 Race track Buildings_Five Star Shiving	FIVE STAR SHIPPING CO	Private	4 Type Of Building with UHPFRC Precast Columns, Beams, Rafters & Slabs			Completed	400	Column & Beams
58	Firodia Bridges Major Bridge_Force Motor	Amar Prerana Trust [Force Motor]	Private	3x15	45	10.5	Completed	37.8	IB850 -
59	Firodia Bridges Entry Bridge_Force Motor	Amar Prerana Trust [Force Motor]	Private	4x15	60	10.5	Completed	50.4	IB850 -
60	Coastal Road Airport Link Road FOB__JMMIPL	J M Mhatre Infrastructures Pvt Ltd	MH-PWD	2X40	80	15	Completed	448	BT 1850
61	Coastal Road Airport Link Road FOB_M_JMMIPL	J M Mhatre Infrastructures Pvt Ltd	MH-PWD	3x38.5	120	15	Completed	495.6	BT 1850
62	Coastal Road Airport Link Road FOB__JMMIPL	J M Mhatre Infrastructures Pvt Ltd	MH-PWD	1x33.0	33	15	Completed	68.475	BT 1500
63	Rewa Bypass Canal Bridge_Udit Infra	Udit Infra Pvt Ltd	NHAI	70x1	70	12.5	Completed	365.12	UBG-3000
64	Port Road Improvement 0+433_Vizag (AP)-ATIPL	Arvind Techo Infra Pvt Ltd	NHAI	1x57	57	11.5	Completed	121.903	UBG-2250
65	Port Road Convent Nagar 2+465/447_Vizag (AP) -ATIPL	Arvind Techo Infra Pvt Ltd	NHAI	2x45	90	11.5	Completed	197.425	UBG-2250
66	Port Road Convent Nagar 0+458_Vizag (AP) -ATIPL	Arvind Techo Infra Pvt Ltd	NHAI	1x67	67	11.5	Completed	184.234	UBG-3000
67	Port Road Convent Nagar 0+683_Vizag (AP) -ATIPL	Arvind Techo Infra Pvt Ltd	NHAI	1x65	65	11.5	Completed	178.8923	UBG-3000
68	Port Road Convent Nagar 1+220_Vizag (AP) -ATIPL	Arvind Techo Infra Pvt Ltd	NHAI	2x70	140	11.5	Completed	387.91912	UBG-3000
69	Jowai-Meghalaya Assam Border MH-44 Bridges Overlay Meghalaya	Unique UHPC Infra LLP	NHAI	2x90	180	10.5	Completed	137.11	Overlay
70	Mamurdi Pavana River Bridge Pune_ARC	AR Construction	PCMC_Pune	2x30+1x20.5+3x30+4x30+1x60	310	15	In Progress	372	IB850 & IB1425
71	Hadpsar-ROB	R & C	PMCNHAI	1X57.2	57	12.5	In Proposal	172.881	UBG-2250

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Bridge No.	Bridge Name	Contractor	Authority	Span Arrangement (m)	Total Length (m)	Total Width (m)	Status	Bridge Type	Quantity of Girder (oum)	Work Order Basic Value	GIRDER Type
72	Hanumangarh (Rajasthan) - ROB_R&C	R & C	Rajasthan PWD	1X62	62	13.8	In Proposal	ROB	323.392		UBG-3000
73	Anand Nagar to Saket Projet_Thane Mumbai	J Kumar Infraprojects Ltd	NHAI	2x55	55	25	In Proposal	Flyover	333.63	31,32,98,600	UBG-2250
74	Anand Nagar to Saket Projec_thane Mumbai	J Kumar Infraprojects Ltd	NHAI	1x85	85	25	In Proposal	Flyover	665.04		UBG-3000
75	Bhatsa River Bridge Kalyan_Man Infra_ -Mumbai	Man Infrastructures Pvt Ltd	MH-PWD	4x36	36	12	In Progress	Highway bridge	109.188	2,15,27,500	BT-1500
76	Mhalgi Flyover_Nagpur_KCC	KCC Construction Ltd	MH-PWD	1x40+6x26.6+6x30	519.6	17.56	In Progress	Flyover	684.4	8,56,84,360	IB-850, IB-1450
77	Interchange_Multimodal Logistic Part at Nagpur_D.P. JAGTAP	D P Jagtap &Co.	NHLML	1x65	65	19.8	In Proposal	Interchange Passes	339.04	4,47,95,251	UBG-3000
78	Staircases for Berthing Place_(BB-4)	Unique UHPC Infra LLP	JNPA-Mumbai	Stair Cases			Completed	Jetty Work	6.8	19,37,127	Jetty Precast
79	Metro Station's Girders_DMRC Delhi	YFC Project Ltd; Eklavya	DMRC-Delhi	25x15	375	25	In Proposal	Elevated Metro Stations	675	9,75,65,250	IB-850
80	Indora Flyover_Nagpur_NCC [Part-II]	NCC Limited	NHAI	2x90	180	12.5	Completed	Flyover	675.36	5,28,26,185	UBG-4000
81	Eastern railway under Howrah division.ROB connecting khanpur- jaugram town, district- Purba Bardhaman_DFCC	DFCC	Eastern Railway	1x37+8x35+1x25+1x19		11.8	In Proposal	ROB	690.2		IB-850 & BT-1500
82	Mthapur-sipara-mahuli- Punpun in the state of Bihar_AFCON	Afcons Infrastructures Ltd	Bihar State Road Development Corporation	1x64	64	16	Completed	Flyover	388.224	6,81,87,219	UBG-2250
83	Kozhikode Bypass Flyover Bridge_KMC	KMC Construction Limited	NHAI	8x36	288	13.65	In Progress	Flyover	540.432	23,65,01,012	UBG-1500
84	Construction of creek bridge from kasarvadavali (Thane) to kharbhav (Bhiwandi) in the state of maharashtra_AFCON	Afcons Infrastructures Ltd	MMRDA	15x20	300	18	Proposal stage	Flyover	540	1,09,02,58,100	IB-850
85	Construction of creek bridge from kasarvadavali (Thane) to kharbhav (Bhiwandi) in the state of maharashtra_AFCON	Afcons Infrastructures Ltd	MMRDA	2 x 60 + 1 x 22+ 1 x 32 + 65 x 37.5 + 28 x 35	3591.5	18	In Proposal	Flyover	830.784		UBG & BT
86	Nagpur Metro two foot over bridges	RVNL	Nagpur Metro	2x56.5	113	8.8	In Proposal	Viaduct	228.486		UBG-2250
87	Vasai Suraksha smart city -40m spa	Kinjal Civilcon LLP	Suraksha Smart City Vasai	1x40	40	12.35	In Proposal	Minor Bridge	168		BT-1850
88	Kalyan Station	Kinjal Civilcon LLP	smart kalyan dombivali development corporation ltd.	2x25	50	16.5	Completed	Elevated Metro Stations	108	1,22,68,608	IB-850
89	Khambatki Viaduct NH-4 Pune-Satara End Spans	Unique UHPC Infra LLP	NHAI	2X25	50	12.5	In Progress	Viaduct	82.2	89,67,500	BT-1500
90	Mumbai Pod Taxi Project	BKC Connect Pvt Ltd	MMRDA	various	7800	5.47	In Design Stage	Viaduct	5316		UBG-2250
91	Wainganga Bridge_AYNIC	Aynic Pvt Ltd	NHAI	12x50	600	16	In Progress	Major Bridge	1819.8	14,86,97,500	UBG-2250
92	Bridge over Yamuna River - 576 m	Nirmal Buildcon	NHAI	6 x 96	576	13.5	In Progress	Major Bridge	2161.152	33,75,00,000	UBG-4000
93	Talegaon Chakan_Pune	Monte Carlo	MSIDC	250 x 40	10000	17.8	In Proposal	Flyover	42000		BT-1850
94	Kolhapur Flyover_Kolhapur	J Kumar Infraprojects Ltd	NHAI	Varies	2500	24.6	In Proposal	Major Bridge	0		UBG
95	Major Bridge on Kaveri River @ Ch 124+680 - Bangalore	DY Uppar & Sons, Bangalore	NHAI	2 x 75	150	13.5	In Proposal	Major Bridge	1173.6		UBG-3000
96	RoB's at Nagpur-N0.1	RVNL	Railways	1X45	45	13.5	In Proposal	ROB	272.97		UBG-2250
97	RoB's at Nagpur-N0.2	RVNL	Railways	1x38	38	13.5	In Proposal	ROB	230.508		UBG-2250
98	RoB's at Nagpur-N0.3	RVNL	Railways	1x54	54	13.5	In Proposal	ROB	327.564		UBG-2250
99	Shelli High Level Bridge_DNH	RKC Infrabuild Pvt Ltd	NHAI	100 x1	100	16	In Design Stage	Bridge	600	7,05,61,409	UBG-4000
100	FOB 2 nos	NCC Limited	NHAI				In Proposal				
101	UHPFRC Blocks for Testing	DRDO_Delhi	DRDO	Various Sizes UHPFRC Blocks			Completed	R& D Test at TBRL Chandigarh	18	1,07,21,764	3X3X2 Block
102	Airoli Ghansoli	J Kumar Infraprojects Ltd	MMRDA	55x 1+60 x 1	3300	27.6	In Design Stage	Bridge	600		UBG-3000
103	Thane Costal	Navuga	MMRDA	55 x6	330	27.6	In Design Stage	Bridge	1450		UBG-3000
104	Pune Ring Road W1 (PRR-W1)	Megha Engineering	Pune Ring Road W1 (PRR-W1)	Various Sizes UHPFRC Girders			In progress	MNBs & MJBs	27801	1,13,75,82,000	UBG, BT
105	Pune Ring Road E1 (PRR-E1)	Megha Engineering	Pune Ring Road E1 (PRR-E1)	Various Sizes UHPFRC Girders			In progress	Flyover & MJB	12000	2,63,22,52,060	UBG, BT
106	Coastal Road Airport Link Road FOB__JMMIPL	J M Mhatre Infrastructures Pvt Ltd	MH-PWD	1x26.5	26.5	15	In progress	FOB	44	77,38,236	IB 850

Summary

Total Scope of UHPFRC Bridges/FOBs/Buildings/Overlay in India	106 Nos
Completed UHPFRC Bridges/FOBs/Buildings/Overlay	67 Nos
In Progress of UHPFRC Bridges/FOBs/Buildings/Overlay	17 Nos
In proposal stage	20 Nos

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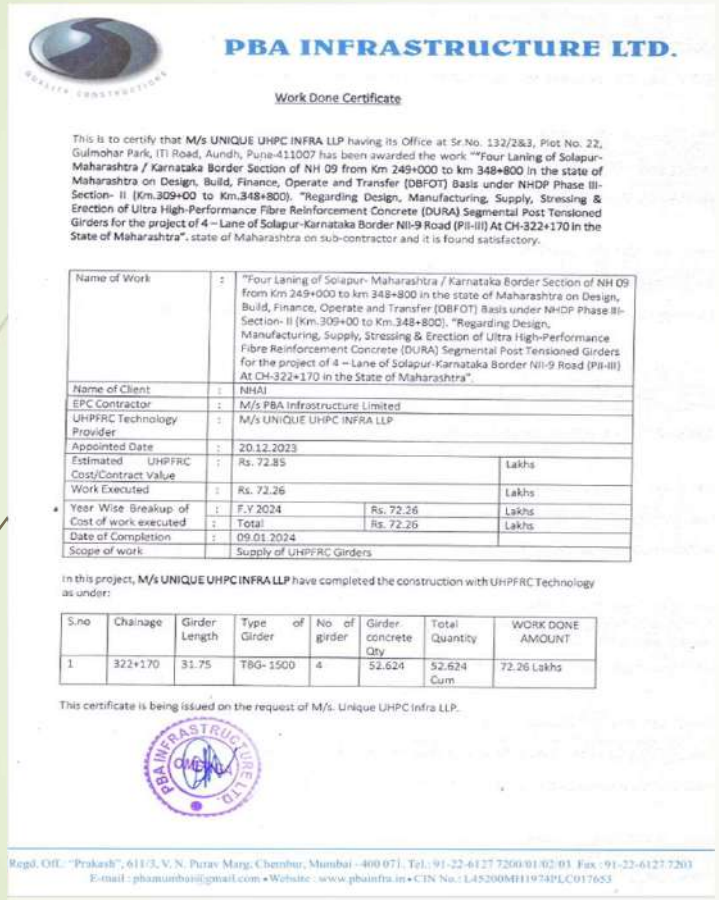
Work Done Certificates



PBA INFRASTRUCTURE LTD.

Work Done Certificate

This is to certify that **M/s UNIQUE UHPC INFRA LLP** having its Office at Sr.No. 132/2&3, Plot No. 22, Gulmohar Park, ITI Road, Aundh, Pune-411007 has been awarded the work ""Four Laning of Solapur-Maharashtra / Karnataka Border Section of NH 09 from Km 249+000 to km 348+800 in the state of Maharashtra on Design, Build, Finance, Operate and Transfer (DBFOT) Basis under NHDP Phase III-Section- II (Km.309+00 to Km.348+800). "Regarding Design, Manufacturing, Supply, Stressing & Erection of Ultra High-Performance Fibre Reinforcement Concrete (DURA) Segmental Post Tensioned Girders for the project of 4 – Lane of Solapur-Karnataka Border NII-9 Road (PII-III) At CH-322+170 in the State of Maharashtra". state of Maharashtra on sub-contractor and it is found satisfactory.

Name of Work	:	"Four Laning of Solapur- Maharashtra / Karnataka Border Section of NH 09 from Km 249+000 to km 348+800 in the state of Maharashtra on Design, Build, Finance, Operate and Transfer (DBFOT) Basis under NHDP Phase III-Section- II (Km.309+00 to Km.348+800). "Regarding Design, Manufacturing, Supply, Stressing & Erection of Ultra High-Performance Fibre Reinforcement Concrete (DURA) Segmental Post Tensioned Girders for the project of 4 – Lane of Solapur-Karnataka Border NII-9 Road (PII-III) At CH-322+170 in the State of Maharashtra".		
Name of Client	:	NHAI		
EPC Contractor	:	M/s PBA Infrastructure Limited		
UHPFRC Technology Provider	:	M/s UNIQUE UHPC INFRA LLP		
Appointed Date	:	20.12.2023		
Estimated UHPFRC Cost/Contract Value	:	Rs. 72.85		Lakhs
Work Executed	:	Rs. 72.26		Lakhs
Year Wise Breakup of Cost of work executed	:	F.Y 2024	Rs. 72.26	Lakhs
	:	Total	Rs. 72.26	Lakhs
Date of Completion	:	09.01.2024		
Scope of work		Supply of UHPFRC Girders		

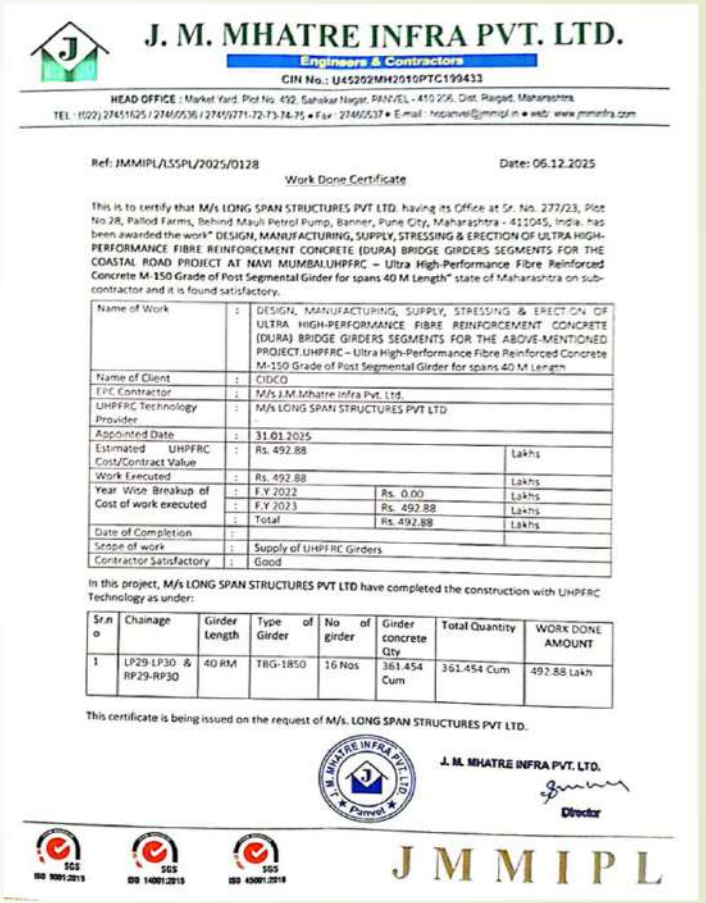
In this project, **M/s UNIQUE UHPC INFRA LLP** have completed the construction with UHPFRC Technology as under:

S.no	Chainage	Girder Length	Type of Girder	No of girder	Girder concrete Qty	Total Quantity	WORK DONE AMOUNT
1	322+170	31.75	TBG- 1500	4	52.624	52.624 Cum	72.26 Lakhs

This certificate is being issued on the request of M/s. Unique UHPC Infra LLP.

PBA INFRASTRUCTURE LTD.

Regd. Off.: "Prakash", 611/3, V. N. Purav Marg, Chembur, Mumbai - 400 071. Tel.: 91-22-6127 7200/01/02/03. Fax : 91-22-6127 7203
E-mail : pbamumbai@gmail.com • Website : www.pbainfra.in • CIN No.: L45200MH1974PLC017653



J. M. MHATRE INFRA PVT. LTD.

Engineers & Contractors

CIN No.: U45202MH2010PTC199433

HEAD OFFICE : Market Yard, Plot No. 492, Sahakar Nagar, PANVEL - 410 206, Dist. Raigad, Maharashtra.
TEL : (022) 27451625 / 2746 0536 / 2745 9771-72-73-74-75 • Fax : 2746 0537 • E-mail : hopanvel@jmmipl.in • web: www.jmmipl.com

Ref: JMMIPL/LSSPL/2025/0128 Date: 06.12.2025

Work Done Certificate

This is to certify that **M/s LONG SPAN STRUCTURES PVT LTD.** having its Office at Sr. No. 277/23, Plot No 28, Pallod Farms, Behind Mayli Petrol Pump, Banner, Pune City, Maharashtra - 411045, India. has been awarded the work" **DESIGN, MANUFACTURING, SUPPLY, STRESSING & ERECTION OF ULTRA HIGH-PERFORMANCE FIBRE REINFORCEMENT CONCRETE (DURA) BRIDGE GIRDERS SEGMENTS FOR THE COASTAL ROAD PROJECT AT NAVI MUMBAI.UHPFRC – Ultra High-Performance Fibre Reinforced Concrete M-150 Grade of Post Segmental Girder for spans 40 M Length**" state of Maharashtra on sub-contractor and it is found satisfactory.

Name of Work	:	DESIGN, MANUFACTURING, SUPPLY, STRESSING & ERECTION OF ULTRA HIGH-PERFORMANCE FIBRE REINFORCEMENT CONCRETE (DURA) BRIDGE GIRDERS SEGMENTS FOR THE ABOVE-MENTIONED PROJECT.UHPFRC – Ultra High-Performance Fibre Reinforced Concrete M-150 Grade of Post Segmental Girder for spans 40 M Length		
Name of Client	:	CIDCO		
EPC Contractor	:	M/s J.M.Mhatre Infra Pvt. Ltd.		
UHPFRC Technology Provider	:	M/s LONG SPAN STRUCTURES PVT LTD		
Appointed Date	:	31.01.2025		
Estimated UHPFRC Cost/Contract Value	:	Rs. 492.88		Lakhs
Work Executed	:	Rs. 492.88		Lakhs
Year Wise Breakup of Cost of work executed	:	F.Y 2022	Rs. 0.00	Lakhs
	:	F.Y 2023	Rs. 492.88	Lakhs
	:	Total	Rs. 492.88	Lakhs
Date of Completion	:			
Scope of work	:	Supply of UHPFRC Girders		
Contractor Satisfactory	:	Good		

In this project, **M/s LONG SPAN STRUCTURES PVT LTD** have completed the construction with UHPFRC Technology as under:

Sr.no	Chainage	Girder Length	Type of Girder	No of girder	Girder concrete Qty	Total Quantity	WORK DONE AMOUNT
1	LP29-LP30 & RP29-RP30	40 RM	TBG-1850	16 Nos	361.454 Cum	361.454 Cum	492.88 Lakh

This certificate is being issued on the request of M/s. **LONG SPAN STRUCTURES PVT LTD.**

J. M. MHATRE INFRA PVT. LTD.

Director

SGS ISO 9001:2015 SGS ISO 14001:2015 SGS ISO 45001:2018

JMMIPL

LONG SPAN STRUCTURES PVT. LTD. — THE UHPFRC COMPANY —

DURA® like concrete • like steel

J. M. MHATRE INFRA PVT. LTD.

Engineers & Contractors

CIN No.: U45202MH2010PTC199433

HEAD OFFICE : Market Yard, Plot No. 492, Sahakar Nagar, PANVEL - 410 206, Dist. Raigad, Maharashtra.
TEL : (022) 27451625 / 27460536 / 27459771-72-73-74-75 • Fax : 27460537 • E-mail : hopanvel@jmmipl.in • web: www.jmminfra.com

Ref: JMMIPL/LSSPL/2025/0127 Date: 06.12.2025

Work Done Certificate

This is to certify that M/s LONG SPAN STRUCTURES PVT LTD. having its Office at Sr. No. 277/23, Plot No.28, Pallod Farms, Behind Mauli Petrol Pump, Banner, Pune City, Maharashtra - 411045, India. has been awarded the work" DESIGN, MANUFACTURING, SUPPLY, STRESSING & ERECTION OF ULTRA HIGH-PERFORMANCE FIBRE REINFORCEMENT CONCRETE (DURA) BRIDGE GIRDERS SEGMENTS FOR THE COASTAL ROAD PROJECT AT NAVI MUMBAI. UHPFRC – Ultra High-Performance Fibre Reinforced Concrete Girder segments for 33 & 40 m spans" state of Maharashtra on sub-contractor and it is found satisfactory.

Name of Work	:	DESIGN, MANUFACTURING, SUPPLY, STRESSING & ERECTION OF ULTRA HIGH-PERFORMANCE FIBRE REINFORCEMENT CONCRETE (DURA) BRIDGE GIRDERS SEGMENTS FOR THE ABOVE-MENTIONED PROJECT.UHPFRC – Ultra High-Performance Fibre Reinforced Concrete Girder segments for spans		
Name of Client	:	CIDCO		
EPC Contractor	:	M/s J.M.Mhatre Infra Pvt. Ltd.		
UHPFRC Technology Provider	:	M/s LONG SPAN STRUCTURES PVT LTD		
Appointed Date	:	15.02.2025		
Estimated UHPFRC Cost/Contract Value	:	Rs. 538.39		Lakhs
Work Executed	:	Rs. 538.39		Lakhs
Year Wise Breakup of Cost of work executed	:	F.Y 2022	Rs.	Lakhs
	:	F.Y 2023	Rs. 538.39	Lakhs
	:	Total	Rs. 538.39	Lakhs
Date of Completion	:			
Scope of work	:	Supply of UHPFRC Girders		
Contractor Satisfactory	:	Good		

In this project, M/s LONG SPAN STRUCTURES PVT LTD have completed the construction with UHPFRC Technology as under:

Sr.no	Chainage	Girder Length	Type of Girder	No of Girder	Total Girder concrete Qty	Work Done Amount
1	LP27-LP28	38.50 RM	TBG-1850	06 Nos	115.651 Cum	538.39 Lakh
2	LP28-LP29	38.50 RM	TBG-1850	05 Nos	115.651 Cum	
3	RP27-RP28	33.00 RM	TBG-1500	05 Nos	66.546 Cum	
4	RP28-RP29	38.50 RM	TBG-1850	05 Nos	115.651 Cum	

This certificate is being issued on the request of M/s. LONG SPAN STRUCTURES PVT LTD

J. M. MHATRE INFRA PVT. LTD.

Director

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THE UHPFRC COMPANY

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NCC

Work Done Certificate

This is to certify that M/s UNIQUE UHPC INFRA LLP having its Office at Sr.No. 132/2&3, Plot No. 22, Gulmohar Park, ITI Road, Aundh, Pune-411007 has been awarded the work "Designing, supply, Transportation, Stressing and Erection, ensuring successful load test of Ultra High-Performance Fibre Reinforced Concrete (UHPFRC) Segmental Post Tensioned Girders for Vehicular Overpass and Interchange at Chandani Chowk, Pune", state of Maharashtra on sub-contractor and it is found satisfactory.

Name of Work	:	Designing, supply, Transportation, Stressing and Erection, ensuring successful load test of Ultra High-Performance Fibre Reinforced Concrete (UHPFRC) Segmental Post Tensioned Girders for Vehicular Overpass and Interchange at Chandani Chowk, Pune.		
Name of Client	:	NHAI		
EPC Contractor	:	M/s NCC Limited		
UHPFRC Technology Provider	:	M/s UNIQUE UHPC INFRA LLP		
Appointed Date	:	11.11.2022		
Estimated UHPFRC Cost/Contract Value	:	Rs. 923.12		Lakhs
Work Executed	:	Rs. 1006.45		Lakhs
Year Wise Breakup of Cost of work executed	:	F.Y 2023	Rs. 184.62	Lakhs
	:	F.Y 2024	Rs. 821.82	Lakhs
	:	Total	Rs. 1006.45	Lakhs
Date of Completion	:	19.07.2023		
Scope of work	:	Supply of UHPFRC Girders		

In this project, M/s UNIQUE UHPC INFRA LLP have completed the construction with UHPFRC Technology as under:

S.no	Chainage	Girder Length	Type of Girder	No of girder	Girder concrete Qty	Total Quantity	WORK DONE AMOUNT
1	Span 5	55.2-57.7	UBG-2250	9	512.69	888.40 Cum	1006.45
2	Span 1-4, 6-7	17-34.75	TBG-1500	33	375.71		

This certificate is being issued on the request of M/s. Unique UHPC Infra LLP.

RKC
INTELLIGENT ENGINEERING

Ref.No: RKCIPL/HO/2025/003 **Date:-** 23/01/2025

Work Done Certificate

This is to certify that **M/s UNIQUE UHPC INFRA LLP** having its Office at S.No. 132/2&3, Plot No. 22, Gulmohar Park, ITI Road, Aundh, Pune-411007 has been awarded the work "Providing of Ultra High performance fibres reinforcement concrete (UHPFRC) Segmental Post Tensioned Girders including Providing Design, Supervision etc. complete and its associated works for the project of 4- laning of existing 2 lane stretch from Dharmapuri at Km 117+000 to lonand at km 166+400 (PKG-IV) on Mohol Aland" section (Design length 49+400 km) of NH-965 in the state of Maharashtra on EPC contractor VNC-RKCIPL JV (R K Chavan Infrastructure Pvt. Ltd) and it is found satisfactory.

Name of Work	:	"Four- laning of existing 2 lane stretch from Dharmapuri at Km 117+000 to lonand at km 166+400 (PKG-IV) on Mohol Aland" section (Design length 49+400 km) of NH-965 in the state of Maharashtra on EPC mode"	
Name of Client	:	National Highway authority of India Government of India (Ministry of Road Transport and Highway)	
EPC Contractor	:	M/s VNC-RKCIPL JV	
Construction, provider and Design of UHPFRC Technology	:	M/s UNIQUE UHPC INFRA LLP	
Work order Date	:	02.02.2022	
Estimated UHPFRC Cost/Contract Value	:	Rs. 26,48,45,265/- (Excl. of GST)	
Value Of Work Completed	:	Rs. 26,74,04,719/- (Excl. of GST) (Twenty-Six Crore sSeventy-Four Lakhs four thousand and seven hundred and nineteen only)	
Year Wise Breakup of Cost of work Completed	:	F.Y 2022-23	Rs.4,63,49,593/-
	:	F.Y 2023-24	Rs.18,04,64,726/-
		F.Y 2024-25	Rs. 4,05,93,400/-
	:	Total	Rs.26,74,04,719/-
Work Completion Date	:	25.10.2024	
Scope of work	:	Providing 150 grade of Ultra High-performance fibres reinforcement concrete (UHPFRC) Segmental Post Tensioned Girders including Providing Design, Supervision etc.	

R. K. Chavan Infrastructure Pvt. Ltd. PTC140559

020-25204294/95 | info@rkcipl.com | www.rkcipl.com

R. K. Chavan Infrastructure Pvt. Ltd. 202, Rahul Enclave, Atul Nagar, Warje, Pune- 411052

LONG SPAN STRUCTURES PVT. LTD.
THE UHPFRC COMPANY

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Work Done Certificate

Date: 25th March 2024

This is to certify that **M/s LONG SPAN STRUCTURES PVT LTD** has been awarded the work "Providing of UHPFRC Segmental Girders, Transportation and Erection work" The agreement /work order dated on 21-03-2023 was signed between M/s LONG SPAN STRUCTURES PVT LTD & UNIQUE-RKC PROJECT LLP.

The works is being executed by M/s LONG SPAN STRUCTURES PVT LTD for the above said Project as per following details:

Name of Work	:	Providing of UHPFRC Post-Tensioned Segmental Girders, work for Minor Brdige at Ch 76+400 in Project of construction of Eight Lane Expressway in Bhoj-Morbe Section-Spur of Mumbai-Vadodara Expressway in Maharashtra under Bharatmala Pariyojana on Hybrid Annuity Mode.		
Name of Client	:	NATIONAL HIGHWAYS AUTHORITY OF INDIA		
EPC Contractor	:	UNIQUE-RKC PROJECT LLP.		
UHPFRC Technology Provider	:	M/s LONG SPAN STRUCTURES PVT LTD		
Appointed Date	:	15th Feb 2024		
Estimated UHPFRC Cost/Contract Value	:	Rs. 183.6		Lakhs
Work Executed	:	Rs. 182.5		Lakhs
Year Wise Breakup of Cost of work executed	:	F.Y 2023	Rs. 0.00	Lakhs
	:	F.Y 2024	Rs. 182.5	Lakhs
	:	Total	Rs. 182.5	Lakhs
Balance Amount of work			Rs - 0.00	Lakhs
Estimate Date of Completion	:	Work Completed on 21 Feb 2024		
Scope of work	:	Providing of UHPFRC Segmental Girders, Transportation and Erection work		

In this project, **M/s LONG SPAN STRUCTURES PVT LTD** have completed the construction with UHPFRC Technology as under:

S.no	Chainage	Girder Length	Type of Girder	No of girder	Girder concrete Qty	Total Quantity	WORK DONE AMOUNT
1	76+400	31.35 RM	TBG-1500	14 Nos	12.933	181.902	Rs. 182.5 Lakh
2							
3							
4							
5							

This certificate is issued on the specific request of Contractor for tendering purpose only.

UNIQUE-RKC Projects LLP Pune

UNIQUE-RKC PROJECTS LLP

Atal Nagar, Survey Number 116/7/1, Rahul Enclave, Flat No. A/202, Atul Nagar Warje, Pune, Maharashtra - 411 058

In this project, **M/s UNIQUE UHPC INFRA LLP** have completed the construction with UHPFRC Technology as under:

S.no	Chainage	Girder Length	Type of Girder	No of girder	Girder concrete Qty	Total Quantity	WORK DONE AMOUNT
1	138 +875	59.0 M	UBG-3000	6	466.06	3467.4 CUM	26.74 Cr.
2	145+635	101.6 M	UBG-4000	6	1098		
3	142+465	34.0 M	TBG-1500	36	506.20		
4	129+506	34.0 M	TBG-1500	10	140.61		
5	137+979	34.0 M	TBG-1500	12	168.73		
6	124+630	29.0 M	TBG-1500	24	289.1		
7	145+902	34.0 M	TBG-1500	10	140.6		
8	127+538	29.0 M	TBG-1500	20	240.9		
9	119+150	21.5 M	IB-850	12	43.2		
10	131+300	21.5 M	IB-850	12	43.2		
11	136+400	21.5 M	IB-850	12	43.2		

Summery of the items Executed along with UHPFRC Quantity for Project:

Sr.No.	Description	Unit	Quantity
1	UHPFRC	Cum	3467.4
2	Providing and Fixing HYSD/CRS Bars	MT	198.3
3	Dismantling of RCC Works	Cum	2495
4	Piling Quantity (1200 mm Dia)	Rmt	750
5	Providing Placing and driving pile steel Liner	MT	40

This certificate is being issued to them upon their request for tender purposes only.

R. K. Chavan Infrastructure Pvt. Ltd. PTC140559

LONG SPAN STRUCTURES PVT. LTD. — THE UHPFRC COMPANY

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Nagpur Mumbai
Super Communication
Expressway Limited
(Special Purpose Vehicle)

H.N.S.T.M.S.H. MSRDC

WORK DONE CERTIFICATE

TO WHOM SO EVER IT MAY CONCERN

This is to certify that **M/s UNIQUE UHPC INFRA LLP** having its office at Sr.No.85/5/1 At post Kiwle, Near Mukai chowk, off Mumbai-Pune Expressway, Kiwle, Pune , Maharashtra - 412101, has successfully manufactured and supplied UHPFRC girders for **"Construction of Access controlled Nagpur-Mumbai Super communication Expressway (Maharashtra Samrudhi Mahamarg)** in the state of Maharashtra on EPC Mode for package -11, from Km521+600 to 532+094 (section-village kokamthan to village Derde Korhale), District- Ahmednagar, and completed the 4 numbers independent bridge as per the following details mentioned in scope of work.

1	Name of Client	Maharashtra State Road Development Corporation Nagpur Mumbai Super Communication Expressway Ltd. (NMSCEL)
2	Name of Concessionaire	M/s Gayatri Projects limited
3	Name of EPC Contractor	M/s Hazoor Multiprojects Limited
4	Name of Contractor	M/s. Raj Infrastructure Development (I) Pvt. Ltd (RIDIPL)
5	UHPFRC Technology Provider	M/s Unique UHPC Infra LLP
6	Name of the Project	Construction of Access controlled Nagpur-Mumbai Super communication Expressway (Maharashtra Samrudhi Mahamarg) in the state of Maharashtra on EPC Mode for package -11, from Km521+600 to 532+094 (section-village kokamthan to village Derde Korhale), District- Ahmednagar.
7	Appointed Date	17 January 2022
8	UHPFRC Structure cost	Rs. 26.86 Cr.
9	Scope of Work	Design and construction of UHPFRC Long span bridges at KM 531.068& 531.968 for 1. KM 531+068 – Span (1 x50)-UHPFRC (Length=51.820 m) LHS 17.2 M Width 2. KM 531+068 – Span (1 x50)-UHPFRC (Length=51.820 m) RHS 17.2 M Width 3. KM 531+968 – Span (1 x50)-UHPFRC (Length=51.820 m) LHS 17.2 M Width 4. KM 531+968 – Span (1 x50)-UHPFRC (Length=51.820 m) RHS 17.2 M Width

CIN: U45309MH2018SGC295599
GST: 27AAMCS5013F1ZT

Registered Office: Nepean Sea Road, Besides Priyadarshini Park, Mumbai 400036
Tel: (022) 2368 6112 / 201
Tel: (022) 2369 6109 / 3671
Tel: (022) 2368 4943

Corporate Office: Near Lilavati Hospital, Opp. Bandra Reclamation Bus Depot, K C Marg Bandra (West), Mumbai 400050
Tel: (022) 2640 0190 / 201
Tel: (022) 2655 8175 / 76
Tel: (022) 2641 7893

www.msrdc.in

For ensuring quality work during execution, the contractor had established a fully equipped laboratory with qualified Engineers and technicians and had mobilized expert Engineers project for execution. The contractor possesses the necessary Machineries and Equipment's for executing UHPFRC Works.

This certificate is issued on the request of M/s Unique UHPC Infra LLP for bidding purpose only.

This Girders are used as new technology and already approved by MSRDC.

Date: 22.02.22
Place: Mumbai

Nagpur Mumbai Super Communication Expressway Limited MUMBAI 400 050.

V.S. Satpute
(V.S. Satpute)
SE&PD
NMSCEL (Ltd.) Nashik

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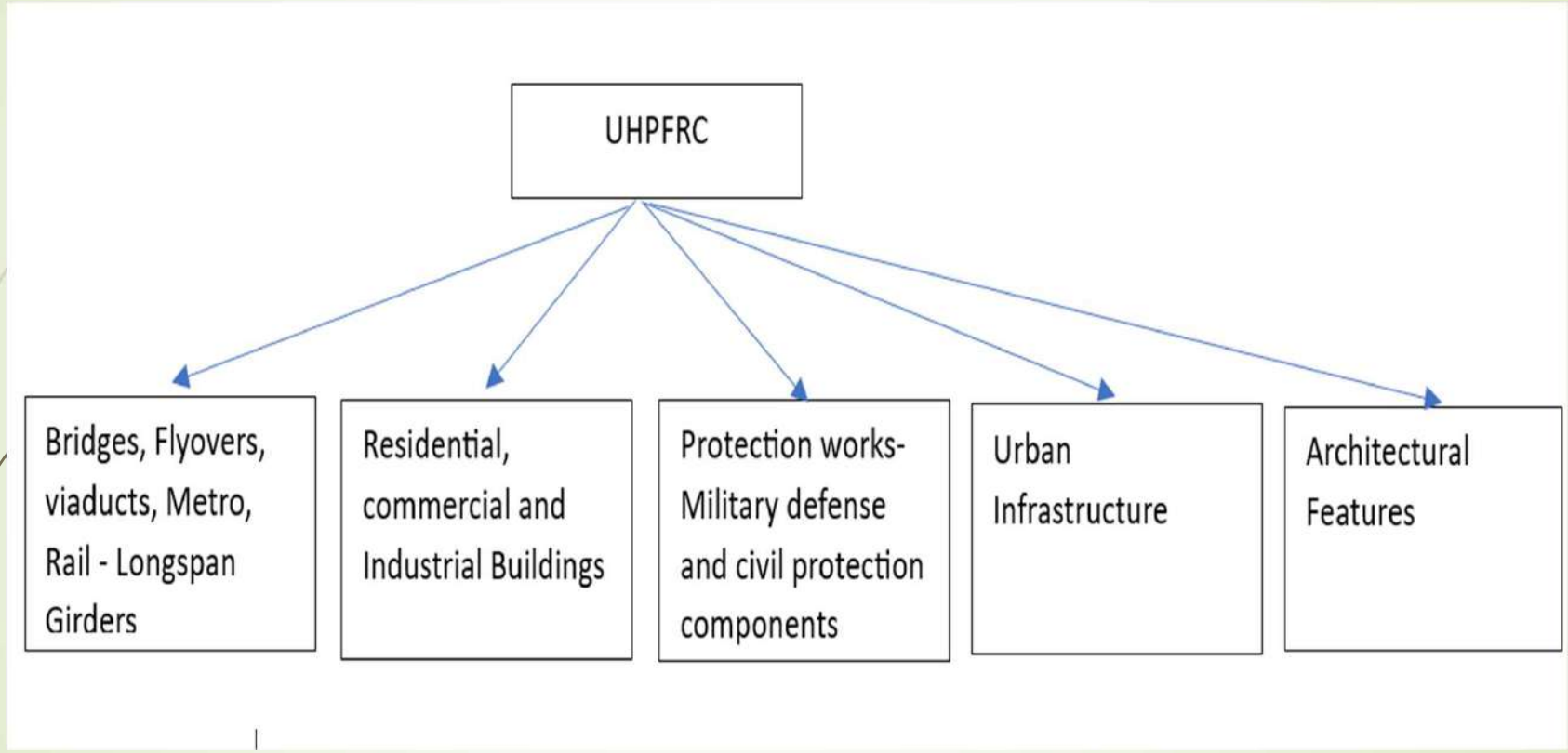
UHPFRC Applications Verticals



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Business Potential

With Implementation of this cost saving technology, good quantum of business is planned to be contributed by-

- By bidding projects as EPC Contractor with most competitive bid
- Pre- bid tie ups with other industry players with making their bid more competitive
- Execution of supply of UHPFRC components to existing contracts of other players
- Application developments in marine, defence, power, industrial & residential sectors with quality product and extraordinary skills in UHPFRC product applications, planned to contribute in execution of considerable quantum of business in coming years

Since LSSPL is Sole UHPFRC Company having credential in such technology Implementation in India, LSSPL holds capacity to implement greater business opportunities

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Applications of UHPFRC for various Infrastructural Components

1) Precast Long span Girders for bridges, flyovers, viaducts, Metro and Rail Structures.

- Usage of UHPFRC leads to 15-20% cost savings over conventional concrete and 25-30% savings compared to steel superstructures
- Longer span length and reduced requirement of substructures achieved through use of UHPFRC translates to a ~25-30% reduction in construction time
- Longer span length and reduced requirement of substructures achieved through use of UHPFRC translates to a ~25-30% reduction in construction time



LONG SPAN STRUCTURES PVT. LTD.
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60m span UHPFRC girder span over NH4 & 25m span UHPFRC girders for approach spans, Chandani Chowk ,Pune



LONG SPAN STRUCTURES PVT. LTD.
THE UHPFRC COMPANY

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India's Longest 102m span UHPFRC Canal Bridge at Lonand on NH-965, Maharashtra



LONG SPAN STRUCTURES PVT. LTD.
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35m Approach span UHPFRC Girders on Missing link of Mumbai- Pune Expressway



LONG SPAN STRUCTURES PVT. LTD.
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56m Span UHPFRC Girder Canal Integral Bridge on NH-965 between Diveghat-Lonand



LONG SPAN STRUCTURES PVT. LTD.
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40m span UHPFRC girder bridge on NH-21 Pandoh Bypass Section, Himachal Pradesh



LONG SPAN STRUCTURES PVT. LTD.
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40m Spans UHPFRC girder elevated stretch on Airport Link Road, Navi Mumbai



LONG SPAN STRUCTURES PVT. LTD.
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Worlds Longest UHPFRC Superstructure bridge with 60m & 90m spans between Indora Square to Shitalmata Chowk, Nagpur in the state of Maharashtra.



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65m span UHPFRC girder obligatory span at RTO Square at Nagpur



LONG SPAN STRUCTURES PVT. LTD.
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53m span UHPFRC girder bridges on Package 11, Nagpur-Mumbai Super Communication Expressway



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India's First 56m span UHPFRC girder bridge at Latur, Maharashtra



LONG SPAN STRUCTURES PVT. LTD.
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UHPFRC Columns, Beams & Rafters on Multiple buildings of Formula-2 Race facility at Nanoli , Pune



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THE UHPFRC COMPANY

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72 m Span UHPFRC girders on port connectivity stretch from Convent Junction To Sheela Nagar Junction In The State Of Andhra Pradesh



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DURA®
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2) Sheet Piles



- Efficient Alternative to conventional Steel Sheet Piles with Immediate cost saving up to 25%
- Faster Construction
- Applications: - Protection works

3) Warehouse & Industrial Buildings

Structural Steel members of Industrial buildings can be replaced with economical UHPFRC members for immediate cost savings and increased service life.



LONG SPAN STRUCTURES PVT. LTD.
THE UHPFRC COMPANY

DURA®
like concrete • like steel

4) Residential and Commercial Buildings



Aesthetically pleasant & light weight building structures

5) Retaining walls

- Achieves a 73% reduction in concrete volume.
- Exhibits exceptionally low permeability.
- Built from lightweight, thin, precast elements that are easier to handle, transport, and install.



LONG SPAN STRUCTURES PVT. LTD.
THE UHPFRC COMPANY

DURA®
like concrete • like steel

6) Buildings- Facades



Architectural freedom, Slender and lightweight elements, Long-term cost savings, Improved energy performance, Faster and easier installation

7) Heavy Duty Industrial Floorings

- Resurfacing and rehabilitation of existing floors
- Impact resistance
- Thin overlays for weight reduction
- Aggressive environments



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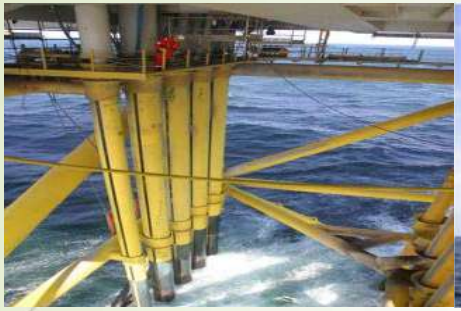
8) Off shore pile Protections





- Exceptional durability
- High impact and abrasion resistance
- Enhanced structural performance
- Reduced maintenance costs

9) Chimneys & Cooling Towers

- Corrosion protection
- Long service life
- High durability
- Resistance to chemical attack
- Minimal cracking
- Enhanced structural integrity



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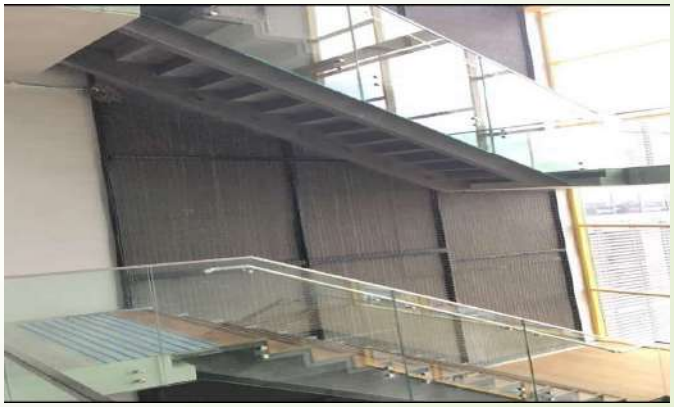
10) Graphic Architecture



- 3D and sculptural elements
- Graphic concrete technology
- Intricate facades and panels
- Custom colours and textures:

11) Stair Cases

- Spiral and winding stairs
- Minimalist and slim design
- Architectural freedom
- Cantilever stairs



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12) Wind Mill Towers



- Facilitates greater tower height
- Segmental assembly
- Bottom feeding avoiding big cranes
- Enhanced fatigue resistance

13) Defence Structures

UHPFRC is used for military bunkers, protective walls, and temporary security barriers ,command centres, ammunition storage facilities, and communication towers that require enhanced durability and protection from attack



LONG SPAN STRUCTURES PVT. LTD.
THE UHPFRC COMPANY

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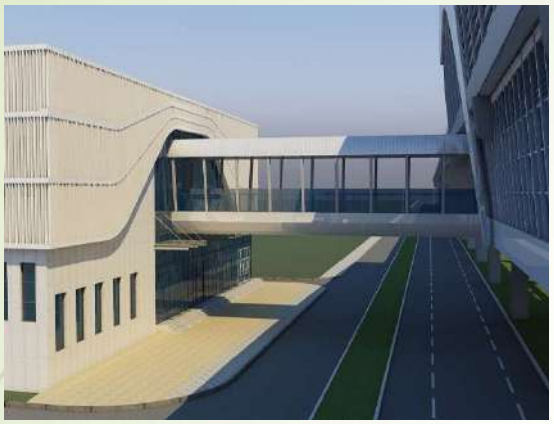
14) Foot over bridges



- Longer, unsupported spans
- Aesthetic versatility
- Sustainable and cost-effective

15) Urban Furniture





LONG SPAN STRUCTURES PVT. LTD.
THE UHPFRC COMPANY

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16) Cladding



- Aesthetic.
- Ultra-customisable
- Material Finesse
- Invisible Fixation
- Impact Resistance – Fire Resistance
- Ecological – Local Material, and less carbon Emissions

17) Energy Storage Systems

- Compared to the traditional metal shell of the same size, the UHPC shell can reduce around 40 per cent of carbon emissions.
- fire- and explosion-resistant , low thermal conductivity hence, requires lesser cooling to storage system



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THE UHPFRC COMPANY

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18) Electric Charging Stations



- Modular construction
- transportation and assembly
- withstand vehicle impact
- vandalism as well as the extreme freeze / thaw weather conditions

19) Concrete Solar Collectors

- Cost advantages through simultaneous use as a cladding element and energy element
- Full replacement of conventional facades
- Contribution to CO2 reduction
- Reduce building operating costs
- Suitable for all constructions.



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20) Concrete Solar Collectors



- Cost advantages through simultaneous use as a cladding element and energy element
- Full replacement of conventional facades
- Contribution to CO2 reduction
- Reduce building operating costs
- Suitable for all constructions.

UHPFRC – ESG Compliance

With lower Carbon foot print, UHPFRC is ESG Complying Concrete application

E- Environmentally friendly since lower concrete quantities are consumed with longer service life

S- Social benefits since lower project Duration

G- Good Governance since the product is made in factory-controlled environment ensuring highest degree of Quality and following best industry practices

Immediate Potential available for UHPFRC

- About 1.5 lakh Railways superstructure to be changed in next 10 years- RDSO already proposing UHPFRC for this scope of works

- Ministry of Urban Development given mandate to use UHPFRC for Metro Rail works.

- Ministry of Railways started approving the ROB and RUN works using UHPFRC.

"UHPFRC – A pathway to future with Sustainable Infrastructure"

LONG SPAN STRUCTURES PVT. LTD.
THE UHPFRC COMPANY

DURA®
like concrete • like steel



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Contact US

•COMPANY NAME	**LONG SPAN STRUCTURES PRIVATE LIMITED**
•COMPANY REG. NO.	27AAFCL0089C1ZP
•DATE OF INCORPORATION	28/04/2022
•REGISTERED OFFICE	S.No 85/5/1,Kiwale BRT Bus Stand, Near Mukai Chowk ,Off. Mumbai-Pune Expressway, Kiwale , Ravet ,P.C.M.C, Pune- 412101
•CONTACT US	9112288900
•MAIL ID	satish.navanale@Lssplindia.com Info@lssplindia.com

