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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: 18th May, 2023

OFFICE MEMORANDUM

Subject: - Stakeholders Feedback on National Highway Pre-cast Concrete Policy -Reg

Madam/Sir,

The Ministry of Road Transport and Highways has issued Policy Circular No. File No.RW/NH-34049/01/2020-S&R (B) dated 8th April 2022 regarding National Highway Precast Concrete Policy (copy of the same is enclosed herewith).

Following amendments to the RFP for EPC contract agreement is required to 2. implement the above mentioned policy:

i) Following shall be inserted at the end of Para 7 of Annex-I to schedule B:

"Minimum 25% of total concrete volume other than the foundations & substructures of Bridges/ Viaduct/RoB for new construction, reconstruction and widening shall be mandatorily factory manufactured pre-cast concrete elements, if such factory is there within 100 km distance from any point on the project. Any relaxation to the use of factory manufactured pre-cast concrete elements 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 of such products demanded by the manufacturer for onsite delivery is more than the prices derived for corresponding cast-in-situ item at the SoR rates prevailing on 28th day before the Bid Due Date".

ii) Following shall be mentioned at para 2 (ii) of Annex-I to Schedule D:

"Design, fabrication/casting and launching/installation of factory manufactured pre-cast concrete elements will be done as per relevant IRC/BIS standards/guidelines/codes duly considering expected handling/lifting stresses. Any international guidelines such as ASHTO, FHWA (Accelerated Bridge Construction. Guidelines), Japan & Euro codes, may be followed in case of any gaps in IRC/BIS standards/ guidelines/codes.

The pre-cast factory shall have minimum facility of fully automatic RMC plant, 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. The precast factory shall be certified by Quality Council of India if it is so mandated by MoRTH".

Bidur Kautola 18/05/2023

iii) Following shall be added at the end of Clause 11.8(i) (b): "This includes pre-cast factory where concrete elements for the project are being manufactured".

iv) Following shall be added at the end of Clause 11.10 (i): "In respect of concrete elements manufactured in pre-cast factory, the test checks by the Authority's Engineer shall comprise at least 10.0 %(ten percent)

of the number of tests prescribed by each category or type of test".

3. Suggestions/comments are invited from all concerned on above proposed amendments to RFP for EPC contract agreement so that the same can be further modified/rationalized.

4. It is requested to kindly send views/suggestions by 31st May 2023 to the email bidurkant.jha@gov.in.

5. This issues with the approval of Competent Authority.

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

Enclosure: National Highways Pre-cast Concrete Policy dated 08-04-2022.

То

- 1. The Chief Secretaries of all the State Governments/ UTs.
- 2. The Principal Secretaries/ Secretaries of all States/ UTs Public Works
- 2. The Principal Secretaries/ Secretaries of all States Provides Department (dealing 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.
- The Managing Director, Hindee, Hindee, Hindee, Status, St
- 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.

Copy to:

- 1. All ADGs in the Ministry of Road Transport & Highways
- 2. All CEs in the Ministry of Road Transport & Highways
- 3. All ROs of the Ministry of Road Transport & Highways
- 4. The Secretary General, Indian Roads Congress
- 5. Technical circular file of S&R (P&B) Section
- 6. NIC-for uploading on Ministry's website under "What's new" with highlighting Stakeholders Feedback on National Highway Pre-cast Concrete Policy-seeking views and suggestions from Stakeholders such as Concessionaire/Contractor/Pre-cast factory Owners/MSME Sector/Consultants/Authority for achieving wider application and accelerated implementation on ground of the National Highway Pre-cast **Concrete Policy**
- 7. National Highways Builders Federation, email ids nhbf.road@gmail.com,groverpuran@gmail.com

Copy for information and necessary action to:

- 1. Sr. PPS to Secretary (RT&H)
- 2. Sr. PPS to DG (RD) & SS
- 3. Sr. PPS to AS&FA
- 4. Sr. PPS to Addl. Secretary (Highways)

Bidyr Kant JLa 18/05/2023

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

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

То

- 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

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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 J Kan OB-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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- 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)