



Wadia Techno-Engineering Services Limited

A Wadia Group Enterprise

CIN: U74220MH1960PLC011691

Authority's Engineer for NH-111 (Shivnagar to Ambikapur)

Project Office: H. No. Block 1-A/7, Sun City, Near Carmel School, Namnakala,
Ambikapur, Chhattisgarh

Telephone: +91- 9440933878

E-mail: wtenh111.sa@gmail.com

Ref: WTESL/SA/NH-111/DEE VEE-GAWAR (J.V.)/2018/85

Date: 06.05.2018

To,
M/s DEE VEE – GAWAR (J.V.),
1st Floor, Vikas Complex,
P.H.Road, KORBA – 495667 (C.G.)
Gentlemen,

Subject:- Rehabilitation and Up-gradation of NH-111 (New NH-130) from Km 163.400 to 215.800 (Shivnagar to Ambikapur) to 2-lane with paved shoulder in the State of Chhattisgarh under NHDP-IV through Engineering, Procurement & Construction (EPC) basis Contract – **Paving Quality Concrete (PQC) Mix Design with Ultratech OPC 43 Grade Cement - Approved – Regarding.**

- Ref: -**
- 1).Agreement No. K 502684 dated 12-04-2017 executed "Between" the Chief Engineer, N.H.Zone.PWD Raipur and M/s DEE VEE – GOWAR (J.V.), Korba
 - 2).Appointed date letter no.1295/NHDP-Cell Dated 12-06-2017(Appointed Date) of Chief Engineer. N.H.Zone.PWD Raipur
 - 3).Your letter no. **DEE VEE-GAWAR (JV)/CG/NH-130/PKG-3/2017-18/146 Dated 06.05.2018**

The Mix Design calculations along with test results for **Paving Quality Concrete (PQC) Mix Design** for the following sources of constituents received from your end vide reference 3rd cited.

- 1). **Cement:** Ultratech OPC 43 Grade
- 2).**Fine Aggregate (River Sand):** Rehand river, Kawalgiri (Village), Udaipur (Thasil),
- 3).**Coarse Aggregate:** EPC Contractor's Stone Crusher at Mohanpur (Village), Lakhapur (Thasil),
- 4). **Fly ash:** NTPC Korba
- 5).**Water:** Bore Water at Base Camp at Chainage 187+1500 meters LHS
- 6). **Admixture:** Shellcon 300 (Medium)

2).The test results and mix design calculations verified and found in order as per guidelines of Section 601 of MORTH Specifications for Road and Bridge Works (Fifth Revision), IRC:44-2017 Guidelines for Cement Concrete Mix Design for Pavements and IRC:15-2017 Code of Practice for Construction of Jointed Plain Concrete Pavement. The approved trial mix design for **Paving Quality Concrete (PQC) Mix Design** is herewith enclosed for your guidance.

3).The approved trial mix design is applicable for the above mentioned sources of constituents only, if source of any constituent is changed, the mix design shall be revised.

4). The EPC Contractor is hereby instructed;

i). to submit test results of the proposed admixture Shellcon 300 (Medium), which shall must comply to Physical and Chemical requirements as per IS : 9103 and IS : 6925 as per Clause 602.2.3 of MORT&H and it shall also conform to the additional requirements as mentioned in Clause 1012.3.2 of MORT&H.

Regional Office: # 8-2-686/K/1&2, C3, 2nd Floor, Kimtee Square, Rd No.12, Banjara Hills, Hyderabad – 500 034

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Regd. Office: Neville House, J. N. Heredia Marg, Ballard Estate, Mumbai 400 001.

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ii). to submit the Compressive Strength test results of Fly Ash-Cement Mortar; which when tested in accordance with the methods of test specified in IS: 1727, shall conform to Physical requirements given in IS : 3812 (Part 1).

Thanking you and assuring our best services.
Yours Sincerely,
For **WADIA TECHNO ENGINEERING SERVICES LIMITED**



(Signature)
(V. RAMESH) 06/05/2018
Team Leader cum Senior Highway Engineer
NH - 111, Shivanagar to Ambikapur Section

Enclosures: Approved copy of Paving Quality Concrete (PQC) Mix Design with Ultratech OPC 43 Grade Cement.

CC to:

- 1). The Chief Engineer, National Highway Zone, P.W.D. NH Campus, Pension Bada, Raipur
- 2). The Regional Officer, MoRTH, NH Campus, Pension Bada, Raipur (C.G.)
- 3). The Superintending Engineer, PWD, NH Circle, Bilaspur (C.G.)
- 4). The Executive Engineer, N.H. Division-cum-NHDP PIU, PWD, Ambikapur (C.G.)
- 5). M/s Wadia Techno Engineering Services Limited, Regional Office, Hyderabad