



**Delhi Tourism & Transportation Development Corporation Limited**  
(A Government Undertaking)

**1. BACKGROUND :**

The Signature Bridge Project was entrusted to DTTDC as a Deposit Work by PWD, Govt. of Delhi. An A/A & E/S for the Construction of Signature Bridge & its approaches amounting to Rs. 1131.00 Crores was accorded the Government of Delhi on 26.02.2010. This includes mainly the construction of Eastern & Western Approaches and also the Cable Stayed Bridge over River Yamuna. The main bridge (Cable Stayed) is designed for a length of 675m, 35.2m wide dual carriageways of 14m each and inclined bow shaped special steel pylon 154m above the ground level with a facility of viewing gallery on the top. The main bridge will join NH-1 (Road No. 45) on its Western side and Marginal Bund Road at Khajuri Khas intersection on the Eastern side. To ensure signal free movement in the adjoining area three existing intersection on NH-1 (Road No. 45) at Timarpur, Nehru Vihar and existing Wazirabad Bridge has been integrated and a comprehensive scheme has been evolved consisting of Loops, Ramps, and Flyovers etc. Similarly on the Eastern side a flyover is proposed at Khajuri Khas intersection and large diameter rotary at ground level.

- a. **Approaches (Eastern & Western):** The flyover on Eastern side as well as Western side has already been opened to traffic. Remaining work is at the advance stage of completion with present progress as 98% and work is likely to be completed by 31.10.2015
- b. **Main Cable Stayed Bridge:** This work of bridge was awarded to a Joint venture of M/s Gammon (India) - Construtora Cidade (Brazil) - Tensacciai (Italy) for a sum of Rs. 631.81 Crores. The work was initially delayed due to many factors beyond the control of Engineering Division. However, at present the work is going on full swing and is likely to be completed by target date of 30.06.2016

**2. PRESENT STATUS OF MAIN BRIDGE:**

- (i) All the foundations except integrated piles of P-23 wells have been completed.
- (ii) The erection work for the pylon and steel girders for the Bridge is in progress. The erection work of Pylon is in progress. The pylon bases, the heaviest part, L<sub>0</sub>, L<sub>1</sub> and L<sub>2</sub> on downstream side have been placed on the Piers P19.
- (iii) The structural steel fabrication for the main pylon is completed at M/s ZTSS in China. Four consignments of the fabricated material including all girders have been received at site from ZTSS workshop at China. The part 5<sup>th</sup> consignment is expected for dispatch on 5<sup>th</sup> September, 2015 and remaining in December 2015.

**3. DETAILS OF FUND**

Revised RPE amounting to Rs. 1594 Crores, duly recommended by the Advisory Committee has been sent to Govt. of Delhi for approval. Out of sanctioned funds, Delhi Govt. has so far released Rs. 1021.83, out of which Rs. 975 Crores has already been spent. The Engineering Division of DTTDC before Hon'ble Minister, PWD in this regard made a Presentation on 16<sup>th</sup> July, 2015 and PWD authorities had raised 21 queries. The replies to the said queries has already been submitted to the PWD

4. **MAIN ACTIVITIES ON CRITICAL PATH:**

Two major Activities on Critical path are Foundation p23 and Launching of Pylon including stressing.

- I. **Foundation P23:** It consists of 32 integrated piles, Plugging of two wells, well Cap, 3 piers with bearing and arrangement of Dywidag Bars. Thereafter main and cross girders will be placed followed by cast-in-situ slab. It will take about 6 months to complete the remaining activities on P23 foundation and superstructure after the completion of 32 Piles.

So far, 20 Piles have been completed till and drilling in 21<sup>st</sup> Pile is in progress. It is expected that piling in downstream well be completed by 30.09.2015 and on upstream well by 15.11.2015.

- II. **Pylon:** It consist of Leg part with segments from L0 to L10, Main body from segments MB1 to MB5 and Glass Façade.

So far, on upstream side, Segments L0 and L1 have been erected and on downstream side, Segments L0, L1 and L2 have been erected. Work is in progress for erection of L2 segment on upstream side is in progress. It is expected that the erections of complete Pylon and stressing will be completed by 30.06.2016.

**Work is in full swing so as to complete the balance work by 30.06.2016**

**(Shishir Bansal)**  
**CPM, WBP**

## **A. WORK DONE DURING LAST WEEK i.e. from 16.08.2015 to 22.08.2015**

### **1. Foundation P23:**

- a. Drilling in Pile no. 20 on downstream well completed to a depth of 50m including socketing in rock for a depth of 6 m. Further as a part of preparation, Outer Liner inserted, inner liner removed, cruciform and Reinforcement Cage lowered in flushing started during this week in Pile no. 20.
- b. Preparation of stool for placing the machinery in Pile no. 21 on upstream side completed.
- c. Preparation of stool for placing Machinery in Pile no. 22 also started on downstream side.

### **2. Pylon Erection:**

- a. Downstream Side: Segment L2 on downstream side lifted and placed in position. Further the activities like bolting with L1 segment also completed for this segment
- b. Upstream side: Splicing of different components on L2 segments for upstream side is in progress and likely to be ready for 3<sup>rd</sup> party inspection on 25.08.2015. Working Platform on L1 segment also completed.

### **3. Other activities:**

- a. Accumulation of Earth for placement of Crane for erection of girders of main slab was done, but before the activity could be done, the Earth got washed away due to heavy rains.
- b. Shed for Painting workshop is in progress and is likely to be completed in next week. After this the assembly of segments can take place at two locations simultaneously.

## **B. WORK PLANNED FOR NEXT WEEK i.e. from 23.08.2015 to 29.08.2015**

### **1. Foundation P23:**

- a. Concreting in Pile no. 20 on downstream well
- b. Drilling in Pile no. 21 on Upstream well
- c. Shifting of machinery to Pile no. 22 on Down stream side.
- d. Preparation of stool for placing the machinery in Pile no. 23 on downstream side.

### **2. Pylon Erection:**

- a. Upstream side: Placement of segment L2 on Upstream side.

### **3. Other activities:**

- a. RE-accumulation of Earth for placement of Crane for erection of girders of main slab.
- b. Shed for Painting workshop is to be completed in next week.
- c. Casting of 4 Precast slabs
- d. Stitching of Precast slabs

## **C. BARRIER/ CHALLENGES**

1. Out of sanctioned fund of Rs.1131 Crores for the Project, DTTDC has so far received only 1021.83 Crores. Balance Rs. 109.17 is yet not released by PWD.

2. RPE submitted for an amount of Rs. 1594 Crores is yet not approved.
3. Heavy Rains slows down the progress. The earth gats cut and washed away.