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F. No. 23(29-I)/CPM/F 1/PWD/2016/

679

Date: - 11-3-16

Inspection Note

Sub: - Inspection Note for the work of “**Comprehensive Development of Corridor (Outer Ring Road) between Vikaspuri to Meera Bagh.**”

Inspected the site of Vikaspuri to Meerabagh Project on 11.03.2016 along with the Superintending Engineer, F-12 and Project Manager of M/s. Simplex.

First, went to the nallah portion where erection of longitudinal girder in 37.6 m span and fourth portal beam was in progress. Shuttering and reinforcement for deck slab of 45 m span was also in progress. It was directed to ensure that all the shear studs are checked with respect to its welding.

Bearing adjustment was also in progress. It was directed to ensure that the bearings are finally horizontal in position and gap between the bottom of girders and top plate of bearings is properly filled/grouted.

Then, took the round of the entire elevated corridor and following are the observations: -

- 1) Progress of fixing of APP water membrane is very slow. The SE, F-12 informed that there is a delay in procurement of the APP membrane by the agency. The agency was directed to expedite the procurement.
- 2) At number of places, especially where the gap between crash barrier and central verge, has been filled, line and level are not proper. All such places should be immediately identified and repaired after chiseling/grinding. This activity is very important /emergent to be carried out before fixing of APP membrane.
- 3) Efforts on over deck cleaning, which includes cutting of reinforcement, sealing with epoxy, removal of concrete splatters etc. also needs to be expedited to give enough front for APP membrane fixing.
- 4) Repair of crash barrier on all the places should also be carried out in full swing after deploying more number of gangs on different places so that painting work is done immediately after laying the BC layer.

Then, went to the site office and reviewed the entire progress of work. The Project Manager of M/s. Simplex informed that now they are targeting to complete the erection work in Najafgarh Drain portion between 28th March to 31st March' 2016 and they will be completing the casting of deck slab by the end of first week of April' 2016. It was pointed out that the agency has delayed the entire work very badly and especially erection work in Najafgarh Drain.

The program of completion of elevated corridor except nallah portion was also discussed in detail and the Project Manager of M/s. Simplex informed that they will be completing the entire BC work by 31st March' 2016 after fixing of APP membrane and expansion joints will be fixed by the end of first week of April' 2016. Therefore, the entire elevated corridor, except nallah portion, will be completed by 10th April' 2016. The SE, F-12 was directed to closely monitor the progress of work on daily basis after getting a detailed program of all the pending activities from the agency.

While laying the BC layer, it was again pointed out that the level of the BC layer should be thoroughly checked using aluminum rods along the width of the carriageway as well as across the expansion joints so as to have a jerk free movement.

The status of under deck finishing was also enquired and it is felt that more efforts are required on under deck finishing which is going on very slow. It was also directed to prepare a sample span of under deck finishing which should include finishing of joints of horizontal and vertical fins of wing segments with side of its spine segments, grinding of joints of lateral stitch, filling of small holes etc. Before anti-carbonation paint, surface preparation of entire structure is also very important. The agency should deploy more gangs for preparation of surface of piers also by grinding of joints and filling the pin-holes, as this activity was not visible at any place.

The sample of anti-carbonation paint has not been prepared with the color suggested during last inspections.

The fixing of rain water pipes below deck was also discussed in detail and it was directed to see the sample prepared in the stretch from Mangolpuri to Madhuban Chowk as the same has now been approved by the Engineer-in-Chief, PWD. The rain water pipes are now to run in the line of rain water spouts and need not to be taken towards the fascia panel at the end of wing segment. The sample of down-take pipe on the pier should also be prepared, one at the outer surface of the pier and one in the recessed portion of pier.

Regarding the road work, it was again directed that while doing the bituminous work, one representative of PWD/ TPQA should be present at the hot-mix plant and other at the site so as to ensure the proper quality. The specifications of road work should be ensured by regular testing after cutting the core and other specified methods.

The status of footpath work was also enquired. On L.H.S. before CRPF red light, it was noticed that paver tiles have to settle at many places. It was again pointed out that all the footpath work should be redone after proper sealing of joints with mortar and fixing of geo-fabric as already pointed out on number of occasions earlier.

The suggestion of laying of perforated pipe in the central verge for watering the plantation, in central verge, during rainy season was also suggested and it was directed to prepare a sample of the same. In this stretch, rain water from deck will first go to the rain water harvesting chamber and excess overflowing water will go to these perforated pipe, laid in the central verge and balance excess water will over flow through over flow pipe provided in rain water harvesting chamber. The SE, F-12 should prepare one sample accordingly.

11/3/16
Chief Project Manager
(Flyover) 1, PWD

Copy to:-

- (1) The E-in-Chief (Projects), (Flyover) 1, PWD, 12th Floor, MSO Building, I.P. Estate, New Delhi for kind information please.
- (2) The Pr. Chief Engineer (Projects), PWD, 9th Floor, MSO Building, I.P. Estate, New Delhi for kind information please.
- (3) The OSD (PWD) to Minister, O/o of the Minister, Power, PWD, Health, Industries & Home, GNCTD, A-Wing, 7th Level, Delhi Secretariat, I.P. Extension, New Delhi-110002 for kind information please.
- (4) The Superintending Engineer, F-12, PWD for information & necessary action please.

11/3/16
Chief Project Manager