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सं0 प्र0अभि0 / निदे.(अनु.) / लो0नि0वि0 / Standing Instructions / 4882

दिनांक:15.12.2021

## कार्यालय ज्ञापन Standing Instructions No.2

With a view to ensure implementation of sound engineering practices in construction and upkeep of various infrastructure projects, it is enjoined upon all concerned engineering staff to follow the undermentioned SOP/ suggestions/ directions:

### A) Construction of FOBs

- i) Before start of any FOB work, proper structural design may be got done after soil investigation at site.
- ii) Before start of work, structural drawings should be studied in detail to understand the sequencing of proper execution at site.
- iii) The levels of top of RCC pedestals, proper length of holding down bolts and its quality and make are important and critical issues to be decided right at the time of start of work.
- iv) The level of top of RCC pedestal should be decided keeping in view the clear distance between bottom of FOB and road and also considering future strengthening of road.
- v) If structural designer provides for use of bearings in FOBs, the specification of bearings of approved make should be studied and discussed with agencies immediately at the start of work.
- vi) Proper provision and expansion joints in FOBs, if provided by the structural design, should be ensured during execution.
- vii) Right at the start of the work, the make of different materials to be used in FOBs i.e. make of steel plates/other steel members, make of bearings (if provided), make of stainless steel to be used for railings, workshop from where fabrication has to be got done, make of welding rods to be used by fabrication workshop, make of paint to be used in the work, make of other materials should be discussed and decided to avoid any confusion later on during execution.
- viii) Fabrication of steel structure should be ensured from approved workshop only and proper test of steel material and welding should also be ensured before allowing erection of fabricated material at site.
- ix) All steel structure should be painted, after removing dirt/bristles as per agreement provisions before erecting at site. If during erection, painting is damaged at any place, the same should be properly repainted at site. In no case, steel structure should be allowed to be covered by ACP panel or any other material without ensuring proper painting of steel structure as per agreement provisions.

- x) Proper grouting of top of RCC surface of pedestals and bottom of base plate of steel column should be ensured with proper grouting material. The bolt should be properly tightened as per provisions in structural drawings.
- xi) While fixing the flooring material on deck/steps, it should be ensured that same is of approved make/colour and same is not sounding hollow.
- xii) The railings in FOBs on deck and steps should be fixed properly and sturdily after cutting holes of proper size in the flooring material.

### **B) Improvement of existing footpaths**

In existing footpaths, it has been observed that at number of places, paver blocks have settled, manhole covers are not properly placed, paver blocks missing in patches, kerb stones missing at few places, malba lying on footpaths and wild vegetation growing at some places. It is directed that:-

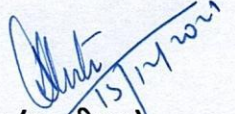
- i) All the existing footpaths should be improved using available materials and deploying required labour to ensure that settled paver blocks are set right,
- ii) Manhole covers are properly placed and levelled with adjoining paver block surface,
- iii) Joints of paver blocks are properly filled with specified sand,
- iv) Missing paver blocks/kerb stones are placed in position
- v) Malba/vegetation are removed from the footpaths.
- vi) Wherever, grills fixed on Central Verge/footpath are tilted, the same should be set right immediately.
- vii) It has been observed that at many places, Central Verge is closed across Zebra Crossing due to which, pedestrians are unable to cross the road along Zebra Crossing. At all such locations, opening in Central Verge to be provided for smooth crossing by pedestrians. If required, locations of Zebra crossings may also be altered in consultation with the Traffic Police. It should also be ensured that Traffic Signal light for pedestrian crossing is visible from the location of zebra crossing.
- viii) Whenever painting is done on kerb stones, it should be ensured that all old loose painting is removed before applying new coat of paint. Horticulture work should be fast tracked at all locations. The plants in Central Verge should be selected wisely to ensure that its branches do not protrude on the main carriageway.
- ix) All signages should be maintained properly and its visibility should be ensured. At some places, tree branches have found covering the signages which should be pruned regularly.

The aim should be to make all these footpaths walkable on top priority. It is suggested that the total length of footpath in any division may be distributed among all the field staff for this purpose and these officers should own that much of footpath and personally ensure that above improvements are implemented from one end to the other.

### C) Construction of new Footpaths

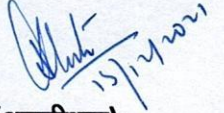
- i) While fixing the kerb stones, specified gap to be kept and proper grooves should be formed. The excess mortar should be removed from the surface of kerb stone immediately after fixing in position and formation of grooves. Line and level of kerb stone should be ensured.
- ii) The bell-mouth pipe of proper quality and make should only be allowed.
- iii) While deciding the size of footpath, minor variation can be done to ensure minimum mortar filling at the both ends of footpath between kerb stone considering the size of paver blocks.
- iv) The specifications of bedding sand and sand for filling of joints of paver block should be ensured as per agreement provisions. While laying the paver blocks, it should be ensured that same are properly levelled. The surface vibrator may also be used for this purpose.
- v) The manhole covers should be properly fixed in position neatly and properly levelled with adjoining paver blocks.
- vi) Proper slope in kerb channel should be ensured up to bell-mouth.
- vii) The height of footpath should be as per UTTIPEC guidelines and *tactile paver* should also be laid as per approved guidelines.
- viii) Green space around the tree should be left properly.
- ix) Before priming/painting of kerb stones, the surface should be cleaned properly.
- x) All the mandatory tests for all the materials should be ensured immediately after receipt of material and collecting random samples from materials received at site in different lots.

This issues with the approval of E-in-C, PWD, GNCTD.

  
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