



सत्यमेव जयते

अधीक्षण अभियंता  
स्वास्थ्य सिविल परिमंडल-II  
लो०नि०वि०, दिल्ली सरकार,  
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No.:23(Inspection)/अधी०अभि०स्वा०-2 / लो०नि०वि० / 2021-22 / 344 H

Dated: 28/2/22

### INSPECTION NOTE

**Name of Work:** Construction of Mother and Child Block and Screening OPD Block at Dr. BSA Hospital at Rohini, Delhi including water supply, sanitary, installations, Electrical Installations, HVAC, Low Side Fire Alarm and Fire Fighting System etc.

Agmt. No.: 09/EE/HPD(North)/2019-20

An inspection was done by the undersigned for the work of "C/o Mother & Child Hospital Block at Dr. BSA Hospital at Rohini, Delhi" on **23/02/2022** in the presence of the following officials:

#### PWD:

- |                        |                                    |
|------------------------|------------------------------------|
| 1. Sh. D.K. Shukla,    | : Executive Engineer, HPD-North    |
| 2. Sh. Chander Shekhar | : Assistant Engineer(C), HPD-North |

#### Agency:

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|----------------------|--|
| 3. Sh. Kamlesh Kumar | : Representative, M/s Quality Buildcon Pvt. Ltd. |
| 4. Sh. Satyam Singh  | : Representative, M/s Quality Buildcon Pvt. Ltd. |
| 5. Sh. Rajesh Kumar  | : Representative, M/s Quality Buildcon Pvt. Ltd. |

#### Consultant:

- |                    |  |
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| 6. Sh. Kapil Rathi | : Architect, M/s C.P. Kukreja & Associates |
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The shuttering, reinforcement and RCC slab work of fifth floor was in progress. The AC work, conduiting and other electrical works etc. were in progress.

During the inspection, the following points were observed:

1. It was seen that the progress of work is very slow and lagging behind the revised program given by the agency. Sh. Satyam Singh, Representative of M/s Quality Buildcon Pvt. Ltd. informed that 120 labour is engaged at the site for all works like reinforcement, centring & shuttering, concreting, AAC Block work etc. However, it is found that the labour employed at the site was not more than 60 nos. Only 05 nos. of the labours were employed for the AAC work, however, the huge AAC work is pending at the various floors.

Now, the program chart is to again revised and submitted at the earliest, in which break down of all activities to be shown properly in detail to monitor the progress and at least 500 nos. of the labours and other resources to be deployed at site to complete the work at the earliest.

2. It was seen that the reinforcement of the beam was passing out side of the column reinforcement, which need to be corrected and it is to be ensured that the reinforcement of the beam should be pass through inside of the column.
3. It was noticed that at some places, the development length of the reinforcement in the beams was lesser than the requirement as per the structural drawings. The Executive Engineer shall ensure that the reinforcement work to be executed strictly as per the structural drawings with proper development length of the reinforcement.
4. It was also noticed that the confining reinforcement in beams and columns were not bent at 135 degree as required. The Executive Engineer shall ensure that the reinforcement work to be executed strictly as per the structural drawings with proper bending of confining reinforcement.
5. At some places, the reinforced cement concrete is honey combed particularly at bottom of column / beams & side of column due to gaps / leakage of slurry in the shuttering. All these honeycombed parts of RCC should be avoided by sealing gaps in shuttering. It should be attended by fixing GI pipes and pumping cement slurry mixed with water proofing compound by the contractor at their own cost. The UPV and rebound hammer tests to be conducted as per agreement conditions in these honeycombed concrete to ascertain the strength of concrete.
6. It was noticed that some cracks were observed at the top surface of freshly laid RCC in fifth floor slab. It should be attended by fixing GI pipes and pumping cement slurry mixed with water proofing compound by the contractor at their own cost. The UPV and rebound hammer tests to be conducted as per agreement conditions in these honeycombed concrete to ascertain the strength of concrete.
7. It was seen that the RCC work was stopped haphazardly at various places in the fifth floor slab. It should be ensured that the RCC work to be completed in one go up to expansion joints without any further joint. However, at places where the joint has already been made, the suitable bonding agent should be used between the new and old concreting.
8. The surface finish of the RCC slab was not proper at some places. The proper surface finish should be ensured by deploying the skilled mason.
9. The hole lefts in the RCC walls due to tie bars are to be filled with epoxy mortar like GP 2 of Fosroc and nothing extra to be paid on this account.
10. It was noticed that hacking was not done at the concrete surface at various floors. It may be ensured that the hacking shall be taken up immediately after the de-shuttering to ensure proper bonding between the RCC surface and the finishing treatment.

11. Other activities like Plaster, Plumbing, Sanitary works etc. to be started in time in a scheduled manner in all the floors.
12. It must be ensured that the register for checking of formwork and placing of reinforcement are updated regularly. It should be ensured and checked by Assistant Engineer (Civil) and Executive Engineer (Civil) on regular basis during the finalising of formwork and placing of reinforcement.
13. Executive Engineer (C) should ensure that Assistant Engineer (Civil) / Junior Engineer is present at site during pouring of entire concreting. The quality of the batch mix concrete should also be ensured by doing mandatory tests for aggregates, water, cement, admixtures, slump etc. regularly as per frequency prescribed in the specifications at Batch Mix Plant at site and slump test at site. The test of water should be carried out in a proper way to ensure that it is fit for use in preparing the concrete.
14. No engineer from TPQA was available at the site from TPQA. The Executive Engineer shall ensure that the TPQA team to be available on regular basis at the site, failing to which, necessary action should be taken as per the conditions of the agreement. The TPQA should check formwork, placing of reinforcement and all other tests as required and should also be present at site during concreting to check quality of concrete, its compaction etc.
15. The samples of the internal finishing like tiles, granite, sanitary installations, CP brass fittings etc. may be finalised by the competent authority as per schedule of finishing given by the consultant and mock up of the same may be prepared at site for finalization of the same.
16. The progress of the work is very slow. As on today, there is no hindrance on the part of the department. The contractor may be asked to expedite the progress of the various activities by deploying more resources and finishing work also to be started simultaneously in the lower floors.

( मनोज कुमार )

अधीक्षण अभियन्ता, स्वास्थ्य परिमंडल-2

प्रतिलिपि:

- 1- The Pr. Chief Engineer, Health, PWD, 2<sup>nd</sup> Floor, MSO Building, New Delhi for information.
- 2- The Superintending Engineer (E), Health Elect. Circle, PWD, 2<sup>nd</sup> Floor, MSO Building, New Delhi.
- 3- The Executive Engineer(C), HPD-North, PWD, Dr. BSA Hospital Complex, New Delhi.
- 4- The Executive Engineer(E), HMED-North, PWD, Dr. BSA Hospital Complex, New Delhi.
- 5- Work file 23(4)



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