



सत्यमेव जयते

राष्ट्रीय राजधानी क्षेत्र दिल्ली सरकार  
GOVT. OF NATIONAL CAPITAL TERRITORY OF DELHI  
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अधीक्षण अभियंता  
स्वास्थ्य सिविल परिमंडल-II  
लो० नि०वि०, दिल्ली सरकार,  
डा० बी० एस० ए० अस्पताल परिसर,  
सैक्टर-6, रोहिणी, नई दिल्ली-110085  
दूरभाष:011-27933240, 27933378

SUPERINTENDING ENGINEER  
HEALTH CIRCLE (CIVIL)-II,  
PWD, GOVT. of NCT DELHI,  
DR. B.S.A. HOSPITAL COMPLEX,  
SECTOR-6, ROHINI, NEW DELHI - 110085  
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No.:23(Inspection)/अधी०अभि०स्वा०-2/लो०नि०वि०/2021-22/18484

Dated: 26-11-2021

**INSPECTION NOTE**

**Name of Work:** Inspection of the work of "Construction of Trauma Centre & Utility Block at Sanjay Gandhi Memorial Hospital at Mangolpuri, Delhi including water supply, sanitary installations, Electrical Installations, HVAC, Low side Fire Alarm and Fire-fighting system etc.".

The above work was inspected by the undersigned on 23.11.2021 in presence of the following:

**1. PWD**

- i. Sh. D.K. Shukla - Executive Engineer, HPD-North
- ii. Sh. Chander Shekhar - Assistant Engineer (C)-I, HPSD (North)
- iii. Sh. Ram Chander Patel - Junior Engineer, HPSD-I (North)

**2. Agency (M/s. PNSC Infrastructure Pvt. Ltd.)**

- i. Sh. P.N. Sharma
- ii. Sh. Ved Prakash

**3. TPQA**

Not present.

Agreement No	:	01/EE/HPD(North)/PWD/2019-20
Agency	:	M/s. PNSC Infrastructure Pvt. Ltd.
Estimated cost	:	₹ 84,04,51,257/-
Tendered Amount	:	₹ 71,22,62,440/-
Stipulated Date of Start	:	04.09.2019
Stipulated Date of Completion	:	03.03.2021
Building	:	Basement + (G+9)
Present Status	:	The reinforcement and formwork for the level six floor is in progress.

The following points were observed:

- 1) The efflorescence was observed at few places in brick work. The FPS bricks shall be changed and alternate sourced bricks shall be selected and bricks shall be tested for efflorescence before using in brick work.

- 2) At some places, the joints of brick work are not uniform and also line & level of brick work is not properly maintained. Workmanship needs to be improved by employing skilled masons. The Assistant Engineer / Junior Engineer should ensure the proper workmanship.
- 3) It was seen that proper hacking was not done at concrete surface and even some portions were left out. The concrete surface shall be hacked at closer intervals and with proper hacking tools to ensure proper bonding between plaster & concrete surface. Hacking shall be taken up immediately after deshuttering when concrete surface is still green.
- 4) 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.
- 5) It must be ensured that the register for checking of formwork and placing of reinforcement are updated regularly. The development length in reinforcement to be provided as per codal provisions. 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.
- 6) The hooks of the strips are not properly bent as per drawings. Assistant Executive Engineer (C) and Executive Engineer (Civil) should check every reinforcement before start of pouring of the concrete in the reinforcement register.
- 7) The 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 and admixtures 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.
- 8) The TPQA should check formwork, placing of reinforcement and should also be present at site during concreting to check quality of concrete, its compaction.
- 9) The Executive Engineer(C) must ensure that all the architectural drawings, service drawings and good for construction structural and finishing drawings are available to the agency so that the progress can be expedite.
- 10) The cement mortar plaster with coarse sand is to be carried out as per agreement items but it is observed that Yamuna Sand is also being added to get smooth finish. The mixing of the Yamuna Sand is to be stopped immediately and cement plaster should be carried out coarse sand only. The Yamuna sand consist of many pollutants which result in degradation of plaster in very short period. The Executive Engineer(C) should ensure that there is no mixing of Yamuna sand in the coarse sand while doing the cement mortar plaster.



- 11) The RCC bends were being cast on all around of the windows to hold the fasteners. The Executive Engineer got conduct the pull out test on AAC blocks to ascertain its pull out strength.
- 12) The progress of the work is very slow. The contractor may be asked to expedite the progress of work by providing more resources like man and machineries.

(मनोज कुमार)

अधीक्षण अभियन्ता, स्वास्थ्य परिमंडल-2

प्रतिलिपि:

1. मुख्य अभियंता (स्वा.), लो.नि.वि., दूसरा तल, एम.एस.ओ. भवन, नई दिल्ली-110002
2. कार्यपालक अभियन्ता, स्वास्थ्य परियोजना मंडल (उत्तर), लो.नि.वि., डॉ० बी.एस.ए. अस्पताल परिसर सैक्टर-6, रोहिणी, दिल्ली-110085 को सूचनार्थ एवं आवश्यक कार्यवाही हेतु।
3. वर्क फाइल संख्या 23(13)

अधीक्षण अभियन्ता, स्वास्थ्य परिमंडल-2