



सत्यमेव जयते

अधीक्षण अभियंता

स्वास्थ्य सिविल परिमंडल-II

लो०नि०वि०, दिल्ली सरकार,

डा० बी०एस०ए० अस्पताल परिसर,

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HEALTH CIRCLE (CIVIL)-II,

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No.:23(Inspection)/अधी०अभि०स्वा०-2 / लो०नि०वि० / 2022-23 / 2679-हि०

Dated: 26-12-2022

INSPECTION NOTE

Name of Work: Construction of New Hospital at Siraspur, New Delhi.

An inspection was done by the undersigned for the work of "C/o New Hospital at Siraspur, New Delhi" on **26/12/2022** in the presence of the following officials:

PWD:

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|--------------------|-------------------------------------|
| 1) Sh. D.K. Shukla | - Executive Engineer, HPD-North |
| 2) Sh. D.K. Shukla | - Executive Engineer(E), HMED-North |
| 3) Sh. Vijay Kumar | - Assistant Engineer(C), Siraspur |

Agency:

- | | |
|------------------------------------|---|
| 1) Sh. Rajesh Deepak & Other Staff | - M/s Rama Civil India Construction Pvt. Ltd. |
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Consultant:

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| 1) Sh. Shubham | - Representative of M/s Design Associates |
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Siraspur Hospital:

The RCC slab of underground and 1st floor for the C1 Block, RCC work in the mummy of the staircases, Block work, Gypsum Plaster, Sanitary Work, floor & tile work and other finishing works were in progress.

During the inspection, the following observations were made:

- Only 650 nos. of the labours were deployed at the site against the requirement of at least 1000 nos. labours, looking to the present status of the work.
- It was seen that the joints of granite placed in the staircase landing portion was not in level. The same needs to be corrected by replacing the granite.
- It was seen that at some places, the efflorescence was coming on the brick work. That may be due to problem in bricks itself or due to use of salty water in the curing. The brick work, where efflorescence is reflecting is to be dismantled and redone with the tested bricks. **It is to be ensured that the water used in the construction is as per specifications.**
- It was seen, that the cement sand mortar being used in granite, tiles, plaster etc. was made by hand mixing, which is not acceptable. During previous site visits, it has already been conveyed that any of the mortar to be prepare in mixer. Hence, the work done by hand mix mortar is rejected. Further, it is to be ensured that the mortar is to be uniformly mixed in the mechanical mixer.

- 5) It was seen that the safety provisions in the staircase area, duct area, lifts and around the building envelope were not provided, which is hazard to the labours and other staff working there and may leads to any mishappening. It is to be ensured that the safety provisions should be provided as per the safety norms on immediate basis to avoid any mishappening.
- 6) It was seen that the AHU was placed in the AHU Rooms on legs, which is imposing the concentrated load on the RCC slab. However, the slab must be designed to take uniform load of the AHU. The Executive Engineer to ensure that the placement of the AHU in the AHU room to be done on raised platform as per design consideration.
- 7) It was seen that one washbasin was provided in the general wards (middle portion) at very odd location, outside of the toilet, just at the entry of the ward, which is a faulty design. This is not a proper place to provide the washbasin and it will also create the wet area at the entrance of the ward itself. Hence, the washbasin to be shifted at proper place in consultation with the consultant, preferably inside the toilet. The other washbasin was placed in the middle portion of the ward, which is open alround and needs to be covered.
- 8) It was seen that at many places, the gypsum plaster done on the wall was undulated and not in true finish level. The necessary rectifications to be done on priority, so that the dry wall surface comes in true level. It was also suggested to use the machines for rubbing of gypsum plaster / putty for quality work as well as early execution. The proper levelled plaster / putty surface to be ensured by the agency.
- 9) The vitrified tiles were being placed in the dado over the AAC blocks. As the porosity of vitrified tiles is very less, during the previous visits, it was suggested to mix suitable chemical in the cement-sand mortar to enhance the adhesion of the tiles with the cement mortar but it was not being mixed. The methodology of fixing the vitrified tiles on the AAC blocks to be confirmed from the manufacturer and act accordingly.
- 10) The consultant, M/s Design Associates submitted that the walls at many places have not been provided up to ceiling height, whereas, as per fire norms, all walls except wall in between the wards and corridor / wards needs to provided up to ceiling level. The same to be reviewed as per fire norms and the necessary rectification to be done, wherever required.
- 11) At most of the places, the gap between the block work and bottom of RCC beams was not filled properly and the side face of the block work was also not filled properly by epoxy mortar. The necessary rectification to be done.
- 12) It was seen that the electrical boxes provided in the general ward room and other places were not in line and level. The necessary rectification for the same to be done, so that after covering the boxes the final line and levels comes in one line.
- 13) The slope in toilet flooring and other areas to be ensured for proper drainage of surface water.
- 14) The pressure test for internal plumbing and smoke test for CI pipe is to be done for each and every toilet and a certification for the same to be given by the Assistant Engineer.
- 15) The representative of M/s Rama submitted that the multi wall polycarbonate sheet wall roofing above the residential floor area is not being provided as per the recommendations of GRIHA agency. However, the multi wall polycarbonate sheet is the part of the EPC Contract. The Executive Engineer, HPD-North and the consultant both shown their unknowingness about this development. The contractor was directed not to take such decisions unilaterally without discussing the same with the Executive Engineer. The EE to discuss the matter with GRIHA agency and envisaged the way to provide the polycarbonate roofing above residential floors as per agreement to prevent the sun and rain etc.

- 16) It was directed that all materials to be used in the work shall be of the preferred make list given in the agreement.
- 17) It was directed to ensure that proper construction water to be used in the work at site as well as at RMC plants. The desired quality of water at site to be achieved by installing RO Plants. The sufficient size collection tank to be constructed for storing the water from RO Plant for various construction activities.
- 18) The agency has not submitted the structural design calculations and shop drawings of structural glazing, ACP, Zinc Panels etc. and the drawing of landscaping. The agency was asked to complete the above or other pendencies by 07/01/2023 and submit to the Executive Engineer for approval.
- 19) The EE, HPD-North was asked to issue floor wise defects list to the contractor within a week and ensure to make necessary rectifications.
- 20) The agency was asked to submit revised program for completing the work with Primavera/MS project software and also to submit monthly programme giving details of labour to be engaged by them and physical & financial progress to be achieved by them each month. The program chart has to be monitored strictly.

The progress of the above work is slow and to be expedite by the contractor by deploying more resources like man, materials & machinery and start the other finishing activities on top priority, so that the already lost time can be make up. The procurement of each and every material to be done on priority, so that the work does not suffer from the non-availability of material.

Executive Engineer to monitor the progress and the compliance of the above observations are to be sent on priority. The Executive Engineer also to ensure that the work is being executed as per the approved drawings and agreement.

(मनोज कुमार)

अधीक्षण अभियन्ता, स्वास्थ्य परिमंडल-2

प्रतिलिपि:

- 1- The Chief Engineer, Health, PWD, 2nd Floor, MSO Building, New Delhi for information.
- 2- The Superintending Engineer (E), Health Elect. Circle, PWD, 2nd Floor, MSO Building, New Delhi for information.
- 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- File no. 23(7)



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