



सत्यमेव जयते

अधीक्षण अभियंता

स्वास्थ्य सिविल परिमंडल-II

लो०नि०वि०, दिल्ली सरकार,

डा० बी०एस०ए० अस्पताल परिसर,

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No.:23(Inspection)/अधी०अभि०स्वा०-2 / लो०नि०वि० / 2022-23 / 1327-h Dated: 1/7/22

### INSPECTION NOTE

**Name of Work:** Setting up of semi-permanent/temporary ICU hospitals at Sarita Vihar (G+4) (336 Beds) and Raghubir Nagar (G+3) (1577 Beds) - Package-III.

**Agmt. No.:** 11/EE/HMD(North)/PWD/2021-22

An inspection was done by the undersigned for the work of "ICU Hospitals at Sarita Vihar & Raghubir Nagar Hospitals" on 28/06/2022 in the presence of the following officials:

**From PWD:**

- |                          |               |
|--------------------------|---------------|
| 1. Sh. M.L. Meena,       | EE, HMD-North |
| 2. Sh. Munish Bhatnagar, | AE, HMD-North |

**From Agency:**

- |                   |           |
|-------------------|-----------|
| 3. Sh. Ramanpreet | M/s SIBPL |
|-------------------|-----------|

**Sarita Vihar Hospital:**

The erection of steel structure, placement of the reinforcement, RCC work in slabs, fire paint, Dry wall, mock up etc. were in progress.

During the inspection, the following points were observed:

1. At some places, the welding of the structural members was not proper and even arc welded at site, which may lead to structural failure of particular member or members as a group. However, the factory fabricated structural members with MIG welding is taken in the agreement.
2. It was seen that the sub-frame for puff panel was installed at outer face of the structure without fire paint and PU paint of main structural members, which may lead to structural failure during occurrence of fire. No sub-frame for puff panel to be installed without fire and PU paint on main structural members.
3. It was seen that the sub-frame for puff panel was either not epoxy painted or not properly epoxy painted and the puff panels were installed, which may lead to corrosion in the sub-frame and failure of sub-frame structure in future. Hence, the sub-frame to be removed first, properly painted with the epoxy paint and then to be installed.

4. It was seen that LGSF were installed at many places on uneven surface without proper fixing of the dash-fasteners. Even the neoprene is not fixed below bottom channel, which may lead to corrosion in the GI channel. However, as per agreement item, the neoprene to be provided below the channel of the LGSF. The complete installation to be removed first and to be installed after proper levelling of base and neoprene.
5. It was also seen that the waste traps of bathrooms were placed in the center place of the bathrooms, whereas, it should be placed in corner portion of the bathrooms. The sanitary work is being done at other places. The mock up for sanitary and plumbing work for various types of the toilets to be prepared first and got approved from competent authority before going ahead.
6. It was seen that at some places the HSFG bolts in beam to beam and column to column connections were not tightened properly. At some places, the bolts installed were under size in length and the nuts are protruding out of threads of the bolts. The same to be checked thoroughly and rectified wherever required. The representative of the contractor, AE, JE of PWD and TPQA should prepare the details of each and every joint and give the certificate that the HSFG bolts installed are of appropriate size as per drawings and tightened as per required torque.
7. At some places, the deck sheets in the sunken portion was not supported by the cleat angle. It may be ensured that the deck sheet should properly rest on cleat angles in the sunken area.
8. It was seen that the thickness of the DFT of the fire paint was not proper on the columns. The DFT to be provided as per approved thickness and record of DFT thickness on all members to be generated and duly signed by contractor, TPQA and PWD officials. The PU paint to be allowed only after ascertaining the proper DFT thickness of the fire paint.
9. The waterproofing treatment of the lift pit may be ensured before concreting of ground floor slab.
10. Executive Engineer to monitor the progress on regular basis and ensure that the work is being executed as per the approved drawings and specifications.

**Raghubir Nagar Hospital:**

The excavation, reinforcement and RCC work in foundation, erection of steel structure etc. were in progress.

During the inspection, the following points were observed:

- 1) It was seen that in many of the foundation, the RCC pedestals are damaged up to 3-4 inch while placing the steel columns. This damaged thickness of the RCC pedestals to be dismantled first before casting the pedestals first.
- 2) It was seen that at some places the HSFG bolts in beam to beam and column to column connections were not tightened properly. At some places, the bolts installed were under size in length and the nuts are protruding out of threads of the bolts. The same to be checked thoroughly and rectified wherever required. The representative of the contractor, AE, JE of PWD and TPQA should prepare the details of each and every joint and give the certificate that the HSFG bolts installed are of appropriate size as per drawings and tightened as per required torque.



- 3) It was also observed that the beam members between the columns are under size, making a gap between plate to plate. These under sized beams to be replaced with proper size beams as per the drawings.
- 4) Executive Engineer to monitor the progress on regular basis and ensure that the work is being executed as per the approved drawings and specifications.

It is seen that the revised programme of completion of the work has not been submitted by the agency even after requested several times. The work is lagging behind and can not be monitored in the absence of programme for completion. The agency is 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 charts has to be monitored strictly.

The progress of the above works are very 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 and the work can be completed at the earliest. To make up for the lost time and to complete the work at the earliest, the labour is to be engaged in 3 shifts, round the clock, on the all the activities.

( मनोज कुमार )

अधीक्षण अभियन्ता, स्वास्थ्य परिमंडल-2

प्रतिलिपि:

- 1- मुख्य अभि०(अन्य परियोजनाए)-कोविड, लो०नि०वि०, 13वां तल, बहुमंजिला भवन, दिल्ली को सूचनार्थ हेतू प्रेषित।
- 2- कार्य०अभियंता (सि०), स्वा०अनु०मं०-उ०, लो०नि०वि०, रोहिणी, दिल्ली को सूचनार्थ एवं आवश्यक कार्यवाही हेतू।
- 3- वर्क फाइल 23(56)



अधीक्षण अभियन्ता, स्वास्थ्य परिमंडल-2