



सत्यमेव जयते

अधीक्षण अभियंता

स्वास्थ्य सिविल परिमंडल-II

लो०नि०वि०, दिल्ली सरकार,

डा० बी०एस०ए० अस्पताल परिसर,

सैक्टर-6, रोहिणी, नई दिल्ली-110085

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SUPERINTENDING ENGINEER

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No.:23(Inspection)/अधी०अभि०स्वा०-2 / लो०नि०वि० / 2022-23 / 1654-H Dated: 1/8/22

INSPECTION NOTE

Name of Work: Setting up of semi-permanent/temporary ICU Hospitals at Shalimar Bagh (G+3) (1430 Beds), Kirari (G+4) (458 Beds) and Sulatanpuri (G+3) (525 Beds) - Package-I.

Agmt. No.: 09/EE/HMD(N)/PWD/2021-22

An inspection was done by the undersigned for the work of "ICU Hospitals at Sultanpuri & Shalimar Bagh Hospitals" on 29/07/2022 in the presence of the following officials:

From PWD:

1. Sh. Pawan Kumar EE, HMD-North

From Agency:

2. Sh. Mudit Agarwal M/s SIBPL
3. Sh. Ramanpreet M/s SIBPL

Sultanpuri Hospital:

The erection of steel structure, placement of the reinforcement, RCC work in slabs, fire paint etc. were in progress. No action taken report has been received from the EE, HMD-North.

During the inspection, the following points were observed:

1. **Observation during the visit on 01/07/2022:** 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.

Observation during the visit on 29/07/2022: The welding of some of the structural members are yet to be done by MIG welding.

2. **Observation during the visit on 01/07/2022:** It was seen that at some places the HSFG bolts in beam to beam and column to column connections were not tightened properly. At many of the places, the bolts installed were under size in length and the nuts are protruding out of threads of the bolts. All this making the structure unstable and unsafe.

The same has been reiterated many times during site inspections as well as by inspection notes but all in vein. Hence, the same to be checked thoroughly and the necessary rectifications to be made at all places. 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. No further work to be progressed till the rectifications are made.

Observation during the visit on 29/07/2022: The majority of the HFSG bolts have been changed by the agency. However, some of the bolts are yet to be changed. The necessary action to be taken by agency on priority.

- 3. Observation during the visit on 01/07/2022:** 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 to make the structure stable and safe. No further work to be progressed till the rectifications are made.

Observation during the visit on 29/07/2022: Some of the beam members have been replaced but rest are still pending. The agency has to replace the remaining members on priority.

- 4. Observation during the visit on 01/07/2022:** 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.

Observation during the visit on 29/07/2022: Action is yet to be taken by the agency. The rectification work to be completed by the agency on priority.

- 5. Observation during the visit on 01/07/2022:** It was seen that in one of the staircase, the waist slab of the staircase was of thickness between 25-50mm, whereas, as per structural drawings it should be 94 mm. The complete staircase to be dismantled and cast as per the approved drawings.

Observation during the visit on 29/07/2022: The staircase has been dismantled. Further, to be cast with RCC as per approved drawings.

- 6. Observation during the visit on 01/07/2022:** The waterproofing treatment of the lift pit to be ensured before concreting of ground floor slab.

Observation during the visit on 29/07/2022: The necessary action has been taken by the agency.

The agency needs to expedite the progress of all remaining activities including internal as well as external finishing on priority by deploying more resources, so that the work can be completed within the time given by the agency in modified progress chart.

Shalimar Bagh Hospital:

The erection of steel structure, placement of the reinforcement, RCC work in slabs, fire paint, dry wall, HVAC ducting etc. were in progress. No action taken report has been received from the EE, HMD-North.

During the inspection, the following points were observed:

1. **Observation during the visit on 01/07/2022:** 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.

Observation during the visit on 29/07/2022: No action has been taken by the agency. The rectification work to be completed by the agency on priority.

2. **Observation during the visit on 01/07/2022:** 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.

Observation during the visit on 29/07/2022: At some of the places, the action has been taken by the agency. At rest of the places, the necessary action was in progress. The rectification work to be completed by the agency on priority.

3. **Observation during the visit on 01/07/2022:** 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.

Observation during the visit on 29/07/2022: At most of the places, the action has been taken by the agency. At rest of the places, the necessary action was in progress. The rectification work to be completed by the agency on priority.

4. **Observation during the visit on 01/07/2022:** 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.

Observation during the visit on 29/07/2022: The action is being taken by the agency. The rectification work to be completed by the agency on priority.

5. **Observation during the visit on 01/07/2022:** It was seen that at some places the HSFGB bolts in beam to beam and column to column connections were not tightened properly. At many of the places, the bolts installed were under size in length and the nuts are protruding out of threads of the bolts. All this making the structure unstable and unsafe.

The same has been reiterated many times during site inspections as well as by inspection notes but all in vein. Hence, the same to be checked thoroughly and the necessary rectifications to be made at all places. 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. No further work to be progressed till the rectifications are made.

Observation during the visit on 29/07/2022: The majority of the HFSG bolts have been changed by the agency. However, some of the bolts are yet to be changed. The necessary action to be taken by agency on priority.

6. **Observation during the visit on 01/07/2022:** 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 to make the structure stable and safe. No further work to be progressed till the rectifications are made.

Observation during the visit on 29/07/2022: No action has been taken by the agency. The rectification work to be completed by the agency on priority.

7. **Observation during the visit on 01/07/2022:** It is noticed that the HVAC ducts has been installed under the roof before fire as well as the PU paint on structural steel members. Now, it is not possible to apply the fire and PU paint on the bottom side of the structural steel members. Hence, the ducting is to be removed and the proper fire and PU paint as per the approved DFT to be done first and further the HVAC ducts to be installed.

Observation during the visit on 29/07/2022: No action has been taken by the agency. The rectification work to be completed by the agency on priority.

8. **Observation during the visit on 01/07/2022:** 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.

Observation during the visit on 29/07/2022: Action is yet to be taken by the agency. The rectification work to be completed by the agency on priority.

9. **Observation during the visit on 01/07/2022:** 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.

Observation during the visit on 29/07/2022: No compliance report submitted.

10. **Observation during the visit on 01/07/2022:** The waterproofing treatment of the lift pit to be ensured before concreting of ground floor slab.

Observation during the visit on 29/07/2022: No compliance report submitted.

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 specifications, so that, the major rectification works can be avoided in future.

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 within modified program chart submitted by the agency. 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