



सत्यमेव जयते

अधीक्षण अभियंता

स्वास्थ्य सिविल परिमंडल-II

लो०नि०वि०, दिल्ली सरकार,

डा० बी०एस०ए० अस्पताल परिसर,

सेक्टर-6, रोहिणी, नई दिल्ली-110085

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SUPERINTENDING ENGINEER

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No.:23(Inspection)/अधी०अभि०स्वा०-2 / लो०नि०वि० / 2022-23 / 59-160

Dated: 06/01/23

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 Hospital at Sarita Vihar, Delhi" on **05/01/2023** in the presence of the following officials:

From PWD:

1. Sh. Pawan Kumar EE, HMD-North
2. Sh. Munish Bhatnagar AE, HMD-North

From Agency:

1. Sh. Karan Aggarwal M/s SIBPL
2. Sh. Ramanpreet M/s SIBPL

From Consultant:

1. Sh. K.B. Gupta M/s Arcop Associates.

Sarita Vihar Hospital:

The work of fire & PU paint, Dry wall partitions, external façade puff panel, structural glazing, toilets brick work, tile work, GSB and PCC in Road and other finishing works were in progress.

During the inspection, the following points were observed:

1. Observations during inspection on 29/11/2022:

It was seen that the road work has not been started yet by the agency. The agency was directed to start the road work immediately as per new architectural drawings submitted for ground floor. The compaction of the earth work to be ensured on MDD and OMC. Sh. Ramanpreet from M/s SAM India submitted that as per drawing, a lot of area in the road is to be provided with the paver blocks, however, very less quantity taken in the agreement. It was directed to execute the work as per agreement quantities and no deviation is permitted. M/s Arcop to revise the drawings accordingly.

Observations during inspection on 12/12/2022:

The earth work and GSB laying was in progress in the back side lane. The compaction of earth work and GSB to be ensured as per specifications.

Observations during inspection on 05/01/2023:

It was noticed that the reinforcement was laid for the road work was in haphazard manner need to be replaced with proper straight reinforcement.

2. **Observations during inspection on 29/11/2022:**

It was seen that the EPDM gasket provided in the slim line partitions is of DURO Enterprises, which is not as per approved list given in the agreement. The same to be replaced with the EPDM gasket of the approved make in the agreement. The aluminium frame section of slim line partition to be wrapped with suitable material to avoid damage of the surface, while executing other works.

Observations during inspection on 12/12/2022:

No action has been taken in this matter.

Observations during inspection on 05/01/2023:

No action has been taken in this matter.

3. **Observations during inspection on 29/11/2022:**

It was seen that open grooved ACP work was executed, however, as per the agreement item, the grooved to be filled with the weather silicon to prevent ingress of the water and rusting of metal elements. Hence, the item is to be executed as per agreement and the consultant M/s Arcop to ensure that the drawings are to be issued as per agreement item only. The EE, HMD-North to ensure that the ACP provided is as per agreement and the item to be executed as per the approved shop drawings.

Observations during inspection on 12/12/2022:

The compliance of the same to be done.

Observations during inspection on 05/01/2023:

No action has been taken in this matter.

4. **Observations during inspection on 29/11/2022:**

The work of metal false ceiling was in progress. The EE to ensure that the material of metal false ceiling is as per agreement and the work to be executed as per agreement items.

Observations during inspection on 12/12/2022:

The compliance of the same to be done.

Observations during inspection on 05/01/2023:

The compliance of the same to be done.

5. **Observations during inspection on 29/11/2022:**

The curtains track to be checked and ensured that it has been provided as per the agreement items.

Observations during inspection on 12/12/2022:

The compliance of the same to be done.

Observations during inspection on 05/01/2023:

The compliance of the same to be done.

6. **Observations during inspection on 29/11/2022:**

It was noticed that the calcium silicate board false ceiling was provided in the toilets, which is not as per the architectural drawings issued. The same to be replaced with the approved architectural drawings.

Observations during inspection on 12/12/2022:

The compliance of the same to be done.

Observations during inspection on 05/01/2023:

The compliance of the same to be done.

7. **Observations during inspection on 29/11/2022:**

The pressure test of water supply lines and the smoke test for the sanitary lines to be ensured and toilet wise record to be generated.

Observations during inspection on 12/12/2022:

The compliance of the same to be done.

Observations during inspection on 05/01/2023:

The compliance of the same to be done.

8. **Observations during inspection on 29/11/2022:**

The metal fire door work was in progress. The frame provided was open on the back side and without any infilled material. The EE to ensure that the fire rated doors to be provided as per agreement items and latest IS codes. It may be ensured the test certificates submitted by the approved vendor is as per latest IS Code & agreement item.

Observations during inspection on 12/12/2022:

The compliance of the same to be done.

Observations during inspection on 05/01/2023:

The compliance of the same to be done.

9. **Observations during inspection on 29/11/2022:**

It was seen that the base prepared for laying PVC floor was undulated at many places. The same needs to be corrected before placing the PVC flooring.

Observations during inspection on 12/12/2022:

The compliance of the same to be done.

Observations during inspection on 05/01/2023:

The compliance of the same to be done.

10. **Observations during inspection on 29/11/2022:**

It was seen that PVC flooring was placed in some areas, however, some of the finishing works was pending in these areas. During completion of these pending finishing works, the PVC flooring may get damaged. Hence, the contractor was directed to place the PVC flooring only after completion of all other finishing activities.

Observations during inspection on 12/12/2022:

The compliance of the same to be done.

Observations during inspection on 05/01/2023:

The protective cover was being laid on PVC flooring.

11. **Observations during inspection on 29/11/2022:**

The slope in toilet flooring and other areas to be ensured for proper drainage of surface water.

Observations during inspection on 12/12/2022:

The compliance of the same to be done.

Observations during inspection on 05/01/2023:

The compliance of the same to be done.

12. **Observations during inspection on 29/11/2022:**

During previous visits, it was always directed to put the traps as near as possible to the wall in toilets. But, it was noticed that at some places, the trap were place far away from the wall. The necessary rectification for the same to be done by agency before further executing the work.

Observations during inspection on 12/12/2022:

The compliance of the same to be done.

Observations during inspection on 05/01/2023:

The compliance of the same to be done.

13. Observations during inspection on 29/11/2022:

It was seen that some of the puff panels erected in the façade were damaged, needs to be changed immediately.

Observations during inspection on 12/12/2022:

The compliance of the same to be done.

Observations during inspection on 05/01/2023:

No damaged puff panel has been changed by the agency till date. The compliance of the same to be done.

14. Observations during inspection on 29/11/2022:

It was seen that the joints in the granite flooring in landing areas of staircases were not in level. The same needs to be corrected by replacing the granite.

Observations during inspection on 12/12/2022:

The compliance of the same to be done.

Observations during inspection on 05/01/2023:

No action has been taken by the agency. It is also noticed that the granite edges are not sharp and damaged during cutting. It is felt that the damaging of the granite slab edges is done due to poor quality of the blades used. All such pieces of the granite need to be replaced including at the undulated joints. The compliance of the same to be done.

15. Observations during inspection on 29/11/2022:

It was seen that the work of STP, ETP etc. were not started by the agency. The same to be treated as a hindrance from the agency side.

Observations during inspection on 12/12/2022:

It is seen that no work of STP / ETP etc. has been started.

Observations during inspection on 05/01/2023:

No action has been taken by the agency. The compliance of the same to be done on priority.

16. Observations during inspection on 29/11/2022:

It was seen that the epoxy paint done on the sub-frame of puff panels and ACP Cladding was not proper. The necessary rectification to be done for the same.

Observations during inspection on 12/12/2022:

The compliance of the same to be done.

Observations during inspection on 05/01/2023:

The compliance of the same to be done on priority.

17. Observations during inspection on 29/11/2022:

It is seen that the drawings issued by the consultant M/s Arcop Associates is not in the line with the agreement. Hence, it was directed to M/s Arcop to issue the drawings only as per the items and quantities taken in the agreement. No deviations from the agreement is permitted.

18. Observations during inspection on 29/11/2022:

M/s SAM India given the following programme for the completion of the work:

- | | | |
|---|---|------------|
| a. The earth work and GSB for road | - | 08-12-2022 |
| b. Completion of first floor work in all respect | - | 10-12-2022 |
| c. Completion of second floor work in all respect | - | 20-12-2022 |
| d. Completion of third floor work in all respect | - | 30-12-2022 |

Observations during inspection on 12/12/2022:

The any of the above targets are not achieved by the agency.

Observations during inspection on 05/01/2023:

The work has not completed yet.

19. Observations during inspection on 12/12/2022:

It was seen that the safety provisions in the staircase area, duct area, around the building envelope were not provided. It is to be ensured that the safety provisions should be provided as per the safety norms on immediate basis to avoid any mishappening.

Observations during inspection on 05/01/2023:

No action has been taken yet. The EE to ensure that the works to be progressed only after providing the appropriate safety provisions.

20. Observations during inspection on 12/12/2022:

During the last inspection, the agency submitted that the layout of the sub-station was not fitting in the area available. The consultant was asked to resolve the issue on priority, but it is seen that no progress has been made in the same. The agency again directed to resolve the issue on the priority, as the hospital cannot be made functional without sub-station building.

Observations during inspection on 05/01/2023:

The problem has not been resolved yet. The SE(E) / EE(E) to kindly look in to the matter and resolve the issue in coordination with BSES on priority.

21. Observations during inspection on 12/12/2022:

It was seen that the AHU was placed in the AHU Room on RCC Blocks of 15 cm. x 15 cm. at edges. However, the slab must be designed to take uniform load of the AHU. The same point was raised during previous inspection of Shalimar Bagh. The Executive Engineer to ensure that the placement of the AHU in the AHU room to be done as per design.

Observations during inspection on 05/01/2023:

No action has been taken in this matter. This is the serious concern, which may lead to any structural issue and needs to addressed immediately.

22. Observations during inspection on 12/12/2022:

It was seen that the major 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.**

Observations during inspection on 05/01/2023:

No action has been taken in this matter.

- 23.** It was seen that the joints of dry wall partition / external wall board of calcium silicate and cement fibre board were neither chamfered nor in line and level at many of the places and joint filling and putty were done, which may lead to cracks at the joints of the boards in the future. However, as per the installation methodology of the calcium silicate / cement fibre board to be used in internal partitions as well as external wall, the chamfering is to be done at all joints and further to be treated with jointing compound as well as jointing tape and needs to be placed in proper alignment.

The necessary rectifications is to be done at all joints as per the methodology already submitted by manufacturer.

24. It was seen that the false ceiling provided in the corridors and other places were not in the line and level. Some of the false ceiling tiles were also damaged. The necessary rectifications to be done on priority.
25. The proper fire rated lever handles to be provided on opposite side of the panic bar in the fire doors as per approved drawings and agreement items.
26. It was seen that in some of the areas, the HPL was provided side by side and joint between two HPL sheets were not intact and looking shabby also. The same needs to be provided with the same wooden beading, which is being provided horizontally. The top horizontal beading at the edge of the HPL should be provided with L Shape wooden beading as already decided during meeting with the higher officers.
27. The Executive Engineer raised that the SS railings has been proposed by the consultant of 3 mm thickness, by which the quantity of the SS railing is being approximate doubled in every site. The contractor submitted that the railings of 3 staircases has already been fabricated with 3 mm thickness. Hence, to keep the SS quantity as per agreement, it was decided that the further railings in this hospital as well as other hospitals will be fabricated in 2 mm thickness. Apart from that, being proposed Mother & Child Hospital, the supporting rail to be provided only on one side in this hospital and in other hospitals no supporting rail to be provided.
28. It was pointed out that no underground water tank has been proposed by the consultant for fire and other purposes. The issue to be taken up with the consultant on priority.

Observations during inspection on 29/11/2022:

The date of completion of work except ground floor was entrusted by the contractor as 31/10/2022 but failed to complete the work within given time. Now, the agency is to complete all the works is to be completed in all respect by 30/12/2022, within timeline given by the agency. The revised programme to be taken from the agency for completion of the work.

Observations during inspection on 12/12/2022:

Neither the agency submitted the revised programme for completion of the work, nor achieved the dates given during the last inspection.

Observations during inspection on 05/01/2023:

The revised programme chart for completion of the work needs to be submitted immediately.

The progress of the above work is 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. 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. 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- मुख्य अभि०(अन्य परियोजनाएँ)—कोविड, लो०नि०वि०, 13वां तल, बहुमंजिला भवन, दिल्ली को सूचनार्थ हेतू प्रेषित।
- 2- अधीक्षण अभियन्ता (वैद्युत), स्वास्थ्य वैद्युत परिमंडल, 2रा तल, एम०एस०ओ० भवन, आई०पी० इस्टेट, नई दिल्ली-110002 को सूचनार्थ हेतू प्रेषित।
- 3- कार्य०अभियन्ता (सि०), स्वा०अनु०मं०-उ०, लो०नि०वि०, रोहिणी, दिल्ली को सूचनार्थ एवं आवश्यक कार्यवाही हेतू।
The decisions to be incorporated in the other sides also after discussion. The EE should have a close watch on the expenditure incurred and future liabilities for every site. If it is felt that the total amount is going beyond the provisions taken in the A/A & E/S, the RPE to be submitted on immediate basis. In no case, the amount should deviate the provision taken in A/A & E/S.
- 4- वर्क फाइल 23(56)

Tej

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