

**GOVERNMENT OF INDIA  
NORTH EASTERN COUNCIL SECRETARIAT  
NONGRIM HILLS, SHILLONG – 793003**

**Subject: Forwarding of Inspection Report.**

In inviting a reference to the above subject, as requested by the concerned Sector, the physical inspection of the project **“Construction of G+4 building for Skill Development at Ramakrishna Mission, Vivekananda Cultural Centre, Ramakrishna Mission, Quinton Road Shillong”** was carried out in Meghalaya. The inspection report duly signed by the Consultant (CE) and Consultant (EE) NEC is enclosed herewith. The project was sanctioned on 02/05/2016 at a total cost of Rs. 393.12 lakhs (NEC Share Rs. 353.80 Lakhs and State Share Rs. 39.31lakhs). Two instalments totalling Rs. 272.00 lakhs were released by the NEC.

The inspection, inter alia, mentioned that:

- Civil structural works had been executed as per approved DPR but finishing works were still in progress.
- Infrastructural Development work had not yet started except for the construction of retaining wall.
- Electrical works was not done according to the electrical standard and many anomalies were found.
- It was found that only one distribution board was installed for each floor. But according to the guidelines each floor should have separate LDB, PDB and UPS DB.
- In the DPR, it was found that no electrical drawings were provided during the time of approval so it was advised to provide proper electrical drawings per floor wise, main panel drawing, fire fighting system drawing with panel, CC TV line diagram for better execution of the project.
- Concerned sector may ask for the rectification of the above mentioned anomalies from the implementing agency, which is very much necessary for smooth functioning and long lasting of highly sophisticated item which will be procured and installed and also to avoid any future disaster i.e. from electrical point of view.
- It appears that physical progress and financial progress are commensurate and that the project can be fully completed with balance installment of funds due from both NEC Secretariat and the State Government.

This is for information and necessary action by the concerned Sector

Enclosure: As above.

U.O.No.NEC/EM/INSPECTION/HRD&E/2012/  
Dated: the 22.11.2017

To,

Director (HRD&E), NEC - 22/11/17

Copy to,

1. P.S to Planning Adviser, NEC for kind information of Planning Adviser
2. PSA, NIC-NEC (Shri M. Nongkhlaw) for uploading the report with photograph on NEC website.

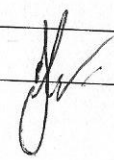
(W. Synrem)  
Economic Adviser (E&M)

**Report of the inspection carried on 16/11/2017 for the NEC funded project "Construction of G+4 building for Skill Development at Ramkrishna Mission ,Vivekananda Cultural Centre,Ramakrishna Mission ,Quinton Road Shillong"**

A joint inspection of the above project was carried out by officials of NEC Secretariat, Shillong and officials of Information Technology Department, Government of Meghalaya. The list of the officials present during the inspection is enclosed as Annexure-I.

**(I) BACKGROUND:**

Name of the project:	" Construction of G+4 building for Skill Development at Ramakrishna Mission ,Vivekananda Cultural Centre, Ramakrishna Mission ,Quinton Road, Shillong "
Location	Shillong, Meghalaya
Implementing Agency:	Director, Higher & Technical Education, Govt. of Meghalaya
Date of Sanction:	02/05/2016
Cost of Project:	Rs. 393.12 lakhs
NEC Share( 90%)	Rs.353.80 lakhs
State Share( 10%)	Rs. 39.31 lakhs
NEC Share released & Dates	1 <sup>st</sup> installment of Rs. 136.00 lakhs released on 17/03/2016 2 <sup>nd</sup> installment of Rs. 136.00 lakhs released on 22/02/2017
State Share released & Dates	Rs. 30.20 lakhs.
Total Amount Released:	Rs. 272.00 lakhs
Balance amount to be released by NEC	Rs. 81.80 lakhs
Balance amount to be released State	Rs. 9.11 lakhs
Status of UC for 1 <sup>st</sup> installment . (NEC Share)	Submitted on 01/02/2017 for Rs. 136.00 lakhs .
Status of UC for 2 <sup>nd</sup> installment. (NEC Share)	Submitted on 28/09/2017 for Rs. 136.00 lakh .
Status of UC for 1 <sup>st</sup> installment . (State Share)	Submitted on 01/02/2017 for Rs. 15.10 lakhs .
Status of UC for 2 <sup>nd</sup> installment. (State Share)	Submitted on 24/07/2017 for Rs. 14.269 lakhs. Unspent Balance is Rs 0.83 lakhs.
Target Date of Completion	2 (Two )Years



**(II) Observations/ Status of works (Physical Achievements):**

The following observations were made on the basis of the visit to the project site and interactions with the officials of the implementing agency and Ramakrishna Mission, Vivekananda Cultural Centre.

Sl.No.	Scope of Work as per DPR	Total amount to be spent	Remark
1.	G+4 building for skill Development at Ramakrishna Mission, Vivekananda Cultural Centre, Quinton Road, Shillong.	Rs. 31143632.00	<p><b>a) Civil Works:-</b></p> <ul style="list-style-type: none"><li>➤ The consultants had inspected the site and found the Structural parts of the building had been completed and finishing works such as tiles, aluminum works, granite works, applying of putty, plastering works were in progress. The Consultants had measured the plinth area of the building and it was found to be same as per area mentioned in approved DPR. The size of the columns at site was 350mm x 600mm whereas in DPR it was 350mm x 500mm. The consultant could inspect only the reinforcement used in C40 and C36 because the rest of the columns were already covered by plain cement concrete. The reinforcement used for C40 and C36 were 4nos. of 25mm dia bars and 10 nos. of 20mm dia bars which was more than the specification mentioned in DPR.</li></ul> <p><b>b) Electrical Works:-</b></p> <p>It could be seen that Electrical conduiting of the whole building almost completed but wiring system was not done according to the electrical standard and many anomalies were found.</p> <ul style="list-style-type: none"><li>➤ It was found that only one distribution board was installed for each floor. But according to the guidelines each floor should have separate LDB, PDB and UPS DB.</li><li>➤ During inspection it was found that in distribution board implementing agency was using higher rating MCB for Lighting Circuit. Each lighting circuit should have load of maximum wattage of 800 watt and it should be connected to 6 amp or 10 amp. MCB not 20 AMP. MCB, as it was used.</li><li>➤ It was also found that for Power Point, implementing agency was using looping</li></ul>



			<p>instead of per point basis and it was found that two power points were connected with a single power cable. Per Power point should be connected directly from PDB and it should be connected to 16 AMP. Power MCB.</p> <ul style="list-style-type: none"> <li>➤ During inspection it was found that in power line, for earthing implementing agency was using 1 sq.mm cable instead of 1.5 sq.mm cables.</li> <li>➤ It could also be seen that colour coding for wiring was not maintained properly.</li> <li>➤ Inspection team also found that main power line which was going from one floor to another was going by wall mounted conduits not through G.I. Cable Tray with insulator and in every floor it was found that all power cable was going through cast iron made structure but not through G.I. Cable tray.</li> <li>➤ During inspection proper conduit layout, Circuit diagram, total load chart for each floor was not found.</li> <li>➤ In the DPR, it was found that no electrical drawing was provided during the time of approval so that it was advised to provide proper electrical drawings per floor wise, main panel drawing, fire fighting system drawing with panel, CC TV line diagram for better execution of the project now.</li> <li>➤ For smooth functioning and long lasting of highly sophisticated item proper earthing is needed for the whole building so it was suggested to the implementing agency to submit load calculation of each floor and room wise so that good earthing could be provided maintaining the electrical standard.</li> <li>➤ It was also suggested to provide Lightning Arrestor on the top floor of the building for safety of the building from lightening in future maintaining appropriate electrical standard.</li> </ul>
2	Infrastructural Development work	Rs. 1,59,918.19 Rs. 1,26,217.77 Rs. 20,15,000.00 Rs. 68,985.00 Rs. 50,000. Rs. 42,01,500 Rs. 48,654 Rs. 70,092	<ul style="list-style-type: none"> <li>➤ The Implementing Department informed that retaining wall had been constructed.</li> <li>➤ Construction of Septic tank not yet constructed.</li> <li>➤ Lift not yet procured.</li> <li>➤ Surface drain not yet done.</li> <li>➤ Arboriculture not yet done.</li> <li>➤ Fire alarm not yet installed.</li> <li>➤ Approach road not yet started.</li> <li>➤ Walkway not yet done.</li> </ul>

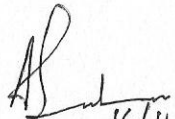
**(IV) Location of the Project:-**

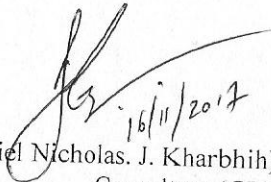
- **Ramkrishna Mission ,Vivekananda Cultural Centre,Ramakrishna Misssion ,Quinton Road Shillong**  
Latitude        N 25.57844<sup>0</sup>

Longitude       E 91.88246<sup>0</sup>


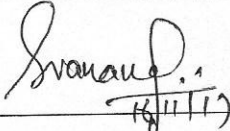
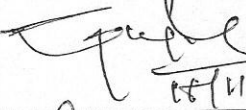
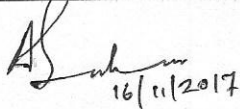
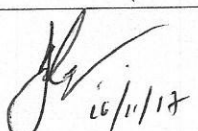
**(V) Overall Remarks and Suggestions:-**

It was found that civil structural works had been executed as per approved DPR but finishing works were still in progress. Infrastructural Development work had not yet started except for the construction of retaining wall. However it could be seen that Electrical conduiting of the whole building was almost completed but wiring system was not done according to the electrical standard and many anomalies were found. It was found that only one distribution board was installed for each floor. But according to the guidelines each floor should have separate LDB, PDB and UPS DB. In the DPR, it was found that no electrical drawings were provided during the time of approval so it was advised to provide proper electrical drawings per floor wise, main panel drawing, fire fighting system drawing with panel, CC TV line diagram for better execution of the project. Concerned sector may ask for the rectification of the above mentioned anomalies from the implementing agency, which is very much necessary for smooth functioning and long lasting of highly sophisticated item which will be procured and installed and also to avoid any future disaster i.e. from electrical point of view.

  
16/11/2017  
(Abhijit Sarkar)  
Consultant (EE)  
NEC Secretariat, Shillong

  
16/11/2017  
(Jeriel Nicholas J. Kharbhih)  
Consultant (CE)  
NEC Secretariat, Shillong

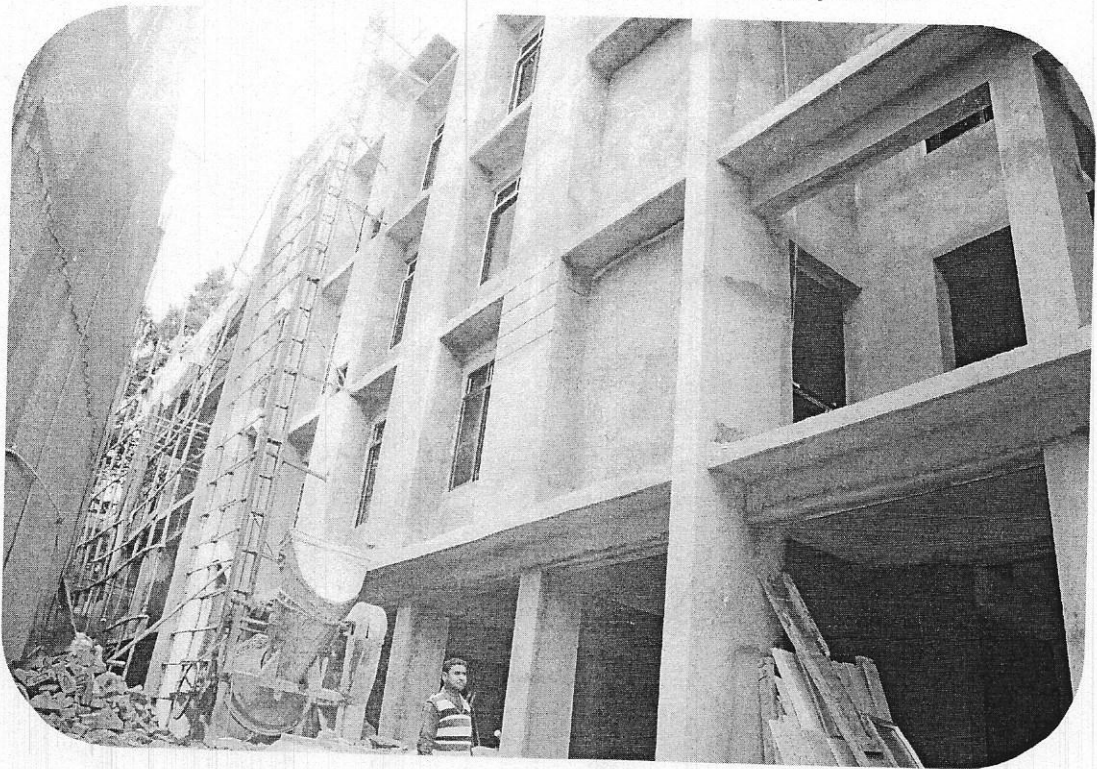
List of officials who were present during the inspection of NEC funded project "Construction of G+S building for Skill Development at Ramakrishna Mission, Vivekananda Cultural Centre, Ramakrishna Mission, Quinton Road Shillong".

Sl. No.	Name	Contact No. & Email id	Designation & Organization/Department	Signature
1.	Ranadhira Dhar	943618532	Ramakrishna Mission	 16/11/17
2.	Sunmi Vedarana	8794242939	—//—	 16/11/17
3.	Sul Kumar Gafita	9863667860	—DO—	 16/11/17
4.	ABHIT SARKAR	8250569194	Consultant (EE) NEC, Shillong.	 16/11/2017
5.	J. Nicholas	9436538665	Consultant (CE) NEC, Shillong	 16/11/17
6.				
7.				
8.				
9.				
10.				

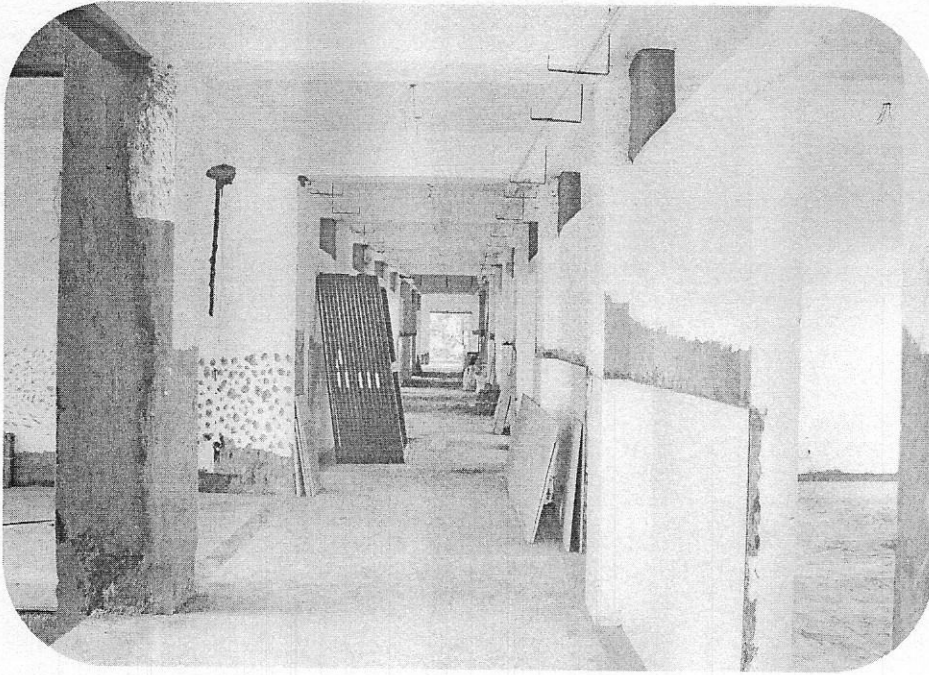




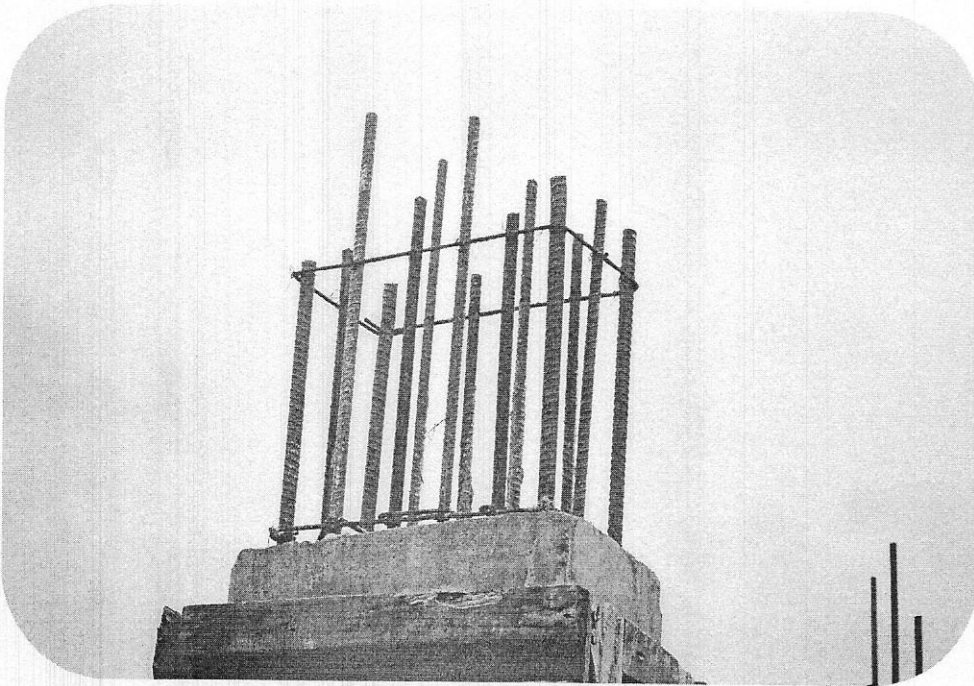
NEC officials with Implementing Department at project site.



View of building

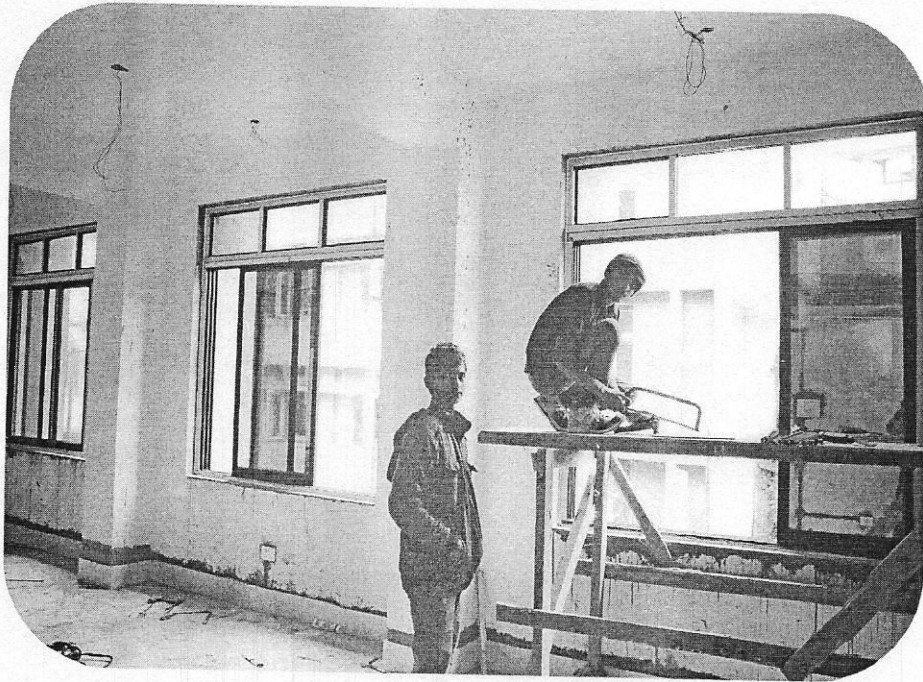


View of hallway



View of reinforcement used at site

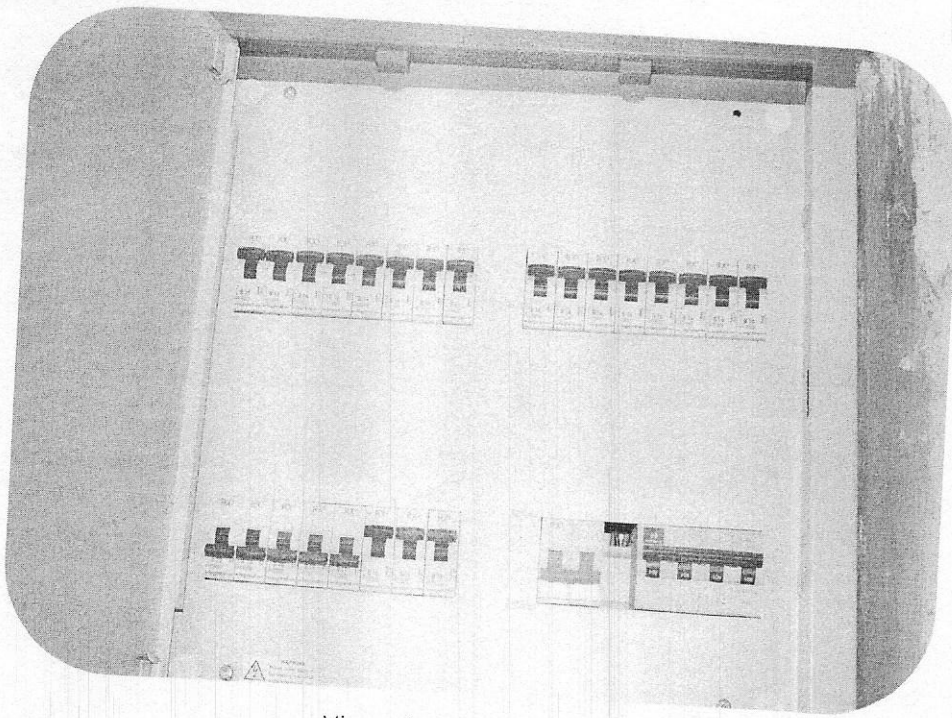




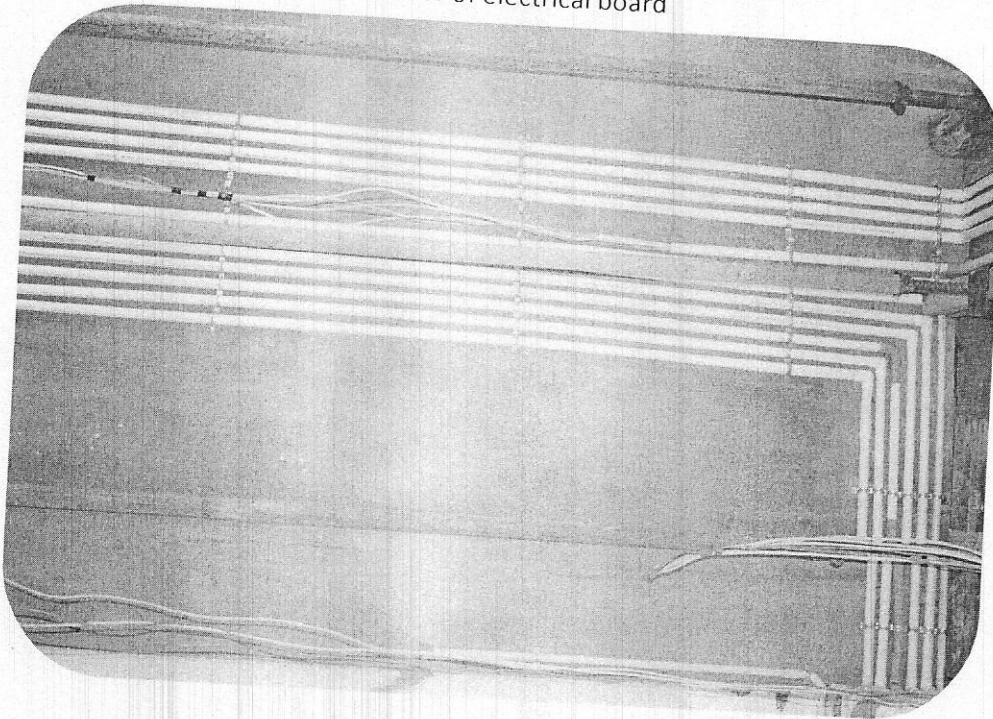
View of Aluminium works .



View of size of column



View of electrical board



View of electrical works