

**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 building for the department of Geology in Cotton College**", **Guwahati, Assam** was carried out on 18/02/2021. The inspection report duly signed by Consultant (CE), NEC is enclosed herewith. The project was sanctioned on 30-03-2018 at a total cost of Rs. 580.00 lakhs . 2(**two**) instalments totalling Rs. 418.00 /- lakh was released by NEC under **MH-3601**.

The inspection, inter alia mentioned that:

- During the inspection, it could be seen that the construction works at site were in progress. Till date the total progress of works at site was about **45-50%**.
- The plinth area of all the floors is more or less the same as that of the approved drawing in the DPR (i.e **Ground floor= 718.00 Sqm, 1st floor= 708.00 Sqm, 2nd = 695.00 Sqm, 3rd = 695.00 Sqm**)
- There are in total **234 nos** of column, **59 nos each** in the **ground floor** and the **3rd floor level**, **58 nos each** in the **1st floor** and the **2nd floor level**. Columns of sizes **(600mm x 400mm)**, **(400mm x 400mm)**, **(300mm x 500mm)**, and beams depth of **500mm** has been constructed at site which is more or less the same as that of the drawing.
- Brickwork has been **done** at site.
- The overall structure of the building has been constructed, thus the structural details such as Reinforcement details, and concrete mix design etc **could not be checked**.
- The position of the **Lift** as per the floor plan in the approved drawing has been **changed**.
- Remaining sanitary works, electrification works, lifts and other components, the implementing agency verbally informed that the remaining works will be started as soon as the building is completed.
- A signboard acknowledging NEC funding was **found** at site

This is for information and necessary action by the concerned Sector.

Enclosure: As above

Atanu Saha
18/03/2021
(Atanu Saha)
I/c Director, (E&M)

U.O.No. NEC/EM/INSPECTION/HRD&E/2012/19(VOL-IIIPart)
Dated: 18/03/2021

To,

Adviser(IFC & WSM) & i/c Director(HRD &E), NEC

Copy to:

1. P.S to Planning Adviser, NEC for kind information of Planning Adviser
2. T.D, NIC-NEC (Shri M. Nongkhlaw) for uploading the report in the NEC website

1813121

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

Subject: Submission of Inspection Report of NEC funded project titled "Construction of building for the department of Geology in Cotton College", Guwahati, Assam under MH-3601.

I, Aarti Khyriemujat, Consultant (CE) have carried out the physical inspection of the project "Construction of building for the department of Geology in Cotton College", Guwahati, Assam under MH-3601 on 18/02/2021. The project was sanctioned on 30/03/2018 at a total cost of Rs.580.00 lakhs. 2 (two) instalments totalling Rs. 418.00/- lakh was released by NEC under MH-3601.

Objective of the Project:-

- To provide adequate facilities and infrastructure among the meritorious students, as the demand for pursuing higher studies in Geology is very high, a permanent building for the department within the campus of the University is highly necessary since the Department of Geology, Cotton University (erstwhile Cotton College), is the only department in the University having no space of its own within the University campus.

Indication of Works as per DPR:-

- Main Building.
- Internal and External Electrification works.
- Sanitary installation.
- Internal water supply.
- Concealed electrification.
- Campus lighting.
- Motor pump set including energisation.
- Landscaping.
- Fire fighting.
- Internal road, path, fencing etc.
- Deep tube well.
- Lift.
- HVAC for the area.

Proposed Beneficiaries & Outcome of the Project:-

• **Beneficiaries:**

- The targeted beneficiaries of the project would be the students not only in Assam, but in the entire NE region. As students from all the north eastern states come to Cotton University to pursue higher education in Geology, the new building for the department will meet the overall need of the students.

Outcomes:

-The new building will meet the long-standing requirement to house the Geology department of Cotton University in a permanent building.

- Students studying in the department, coming from all the north eastern states, with a dream to excel in the field of Geology, will be benefitted by getting better facilities and infrastructure. Such a course is of high demand among graduate students from various streams, particularly of engineering and science background and will be first of its kind in the entire north-east India.

A. Khyriemujat
8/3/21
Aarti Khyriemujat
Consultant (CE)
NEC, Secretariat

Only very few institutions/universities across India have been presently offering such a course.

-With this state-of-the-art infrastructure, the department will open some new courses in the broad areas of Earth Sciences. . The department has already started working on a new course viz. M.Sc./PG Diploma in Geoinformatics, which will be implemented as soon as the new building is ready for use.

Observation mentioned in the inspection report:-

During inspection it could be seen that:

- The construction works at site were in progress. Till date the total progress of works at site was about **45-50%**.
- The plinth area of all the floors is more or less the same as that of the approved drawing in the DPR (i.e **Ground floor= 718.00 Sqm, 1st floor= 708.00 Sqm, 2nd = 695.00 Sqm, 3rd = 695.00 Sqm**)
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- Brickwork has been **done** at site.
- The overall structure of the building has been constructed, thus the structural details such as Reinforcement details, and concrete mix design etc **could not be checked**.
- The position of the **Lift** as per the floor plan in the approved drawing has been **changed**.
- Remaining sanitary works, electrification works, lifts and other components, the implementing agency verbally informed that the remaining works will be started as soon as the building is completed.
- A signboard acknowledging NEC funding was **found** at site

A. Mujat
8/3/21
Aarti Khyimujat
Consultant (CE)
NEC, Secretariat

Report of the inspection carried on 18/02/2021 for the NEC funded project "Construction of building for the department of Geology in Cotton College, Guwahati, Assam"

A joint inspection of the above project was carried out by the official of NEC Secretariat, Shillong and officials of the Cotton University, Assam on 18/02/2021 at Guwahati, Assam. The list of the officials present during the inspection is enclosed as Annexure-I

(I) BACKGROUND:

Name of the project:	"Construction of building for the department of Geology in Cotton College", Guwahati, Assam
Location:	Panbazar, Guwahati, Assam
Implementing Agency:	Cotton University, Panbazar, Guwahati, Assam
Date of Sanction:	30-03-2018
Cost of Project:	Rs. 580.00 lakh under MH-3601
NEC Share (90%):	Rs. 522.00 lakh
State Share (10%):	Rs. 58.00 lakh
NEC Share released & Dates:	1 st installment of Rs.240.00 lakh on 30/3/2018 2 nd installment of Rs.178.00 lakh on 22/10/2020
Total Amount Released by NEC :	Rs.418.00 lakh
Balance amount to be released by NEC:	Rs.104.00 lakh
State Share released :	Rs.24.00 lakh
Balance amount to be released by State:	Rs. 34.00 lakh
Status of UC for NEC share :	UC for Rs. 192.00 lakh for 1 st installment submitted on 28/10/2020
Status of UC for State share :	UC for Rs. 24.00 lakh for 1 st installment submitted on 28/10/2020
Target Date of Completion:	31-03-2021

(II) Aims/Objectives of the Project:-

- To provide adequate facilities and infrastructure among the meritorious students, as the demand for pursuing higher studies in Geology is very high, a permanent building for the department within the campus of the University is highly necessary since the Department of Geology, Cotton University (erstwhile Cotton College), is the only department in the University having no space of its own within the University campus.

A. Khyiemmyat
8/3/21
Aarti Khyiemmyat
Consultant CCE
NEC, Secretariat

(III) Observations/ Status of works (Physical Achievements):-

Sl. No	Approved items of Works	Approved Cost	Achievement found as on date of inspection	Item of work left for completion	Any Deviation with reason
(A)	CIVIL WORKS Subtotal "A"	33222090.00			
1	Earthwork in excavation and filling	-	• During inspection it could be seen that the structure of the building is almost completed, it can be assume that works related to earthwork excavation and filling has been done.	• NIL	• As the earthwork excavation and filling have been completed the consultant could not give any comments.
2	Plain Cement works	-	• PCC works in foundation bed for footing steps, wall, brick works etc, has been done at site.	• NIL	• As the PCC work has been completed the consultant could not give any comments regarding the design mix.
3	Reinforced Cement Concrete Works.	-	• Works related to RCC in substructure up to 2 nd floor level has been completed, whereas for some portion in the 3 rd floor RCC work is still in progress.	• RCC work in the 3 rd floor level is left to be completed.	• As the RCC work is almost completed the consultant could not give any comments regarding the design mix.
4	Timber Shuttering	-	• Timber shuttering works on foundations, footings, bases of columns, pile caps, rafts, beams, etc below ground level has been completed.	• NIL	• NIL
5	Ply board Shuttering	-	• The frame structure of the building is almost completed except for the 3 rd floor level; hence we can assume that Ply board Shuttering (formwork) has been done.	• NIL	• NIL
6	Brick work	-	• Brickwork has been done at site.	• NIL.	• NIL
7	Autoclave Aerator Concrete Block	-	• Autoclave Aerator Concrete Block work is in progress.	• Autoclave Aerator Concrete Block work.	• NIL

Ak. Mijat
7/8/3/21
Aarti Phurim Mijat
Consultant CCE
NEC, Secretariat

Sl. No	Approved items of Works	Approved Cost	Achievement found as on date of inspection	Item of work left for completion	Any Deviation with reason
8	Cement concrete flooring	-	<ul style="list-style-type: none"> Cement concrete flooring works for 1st floor level has been done at site whereas for Ground floor, 2nd and 3rd floor level the work is in progress. 	<ul style="list-style-type: none"> Cement concrete flooring works for Ground floor, 2nd and 3rd floor level is left to be completed. 	<ul style="list-style-type: none"> As the Concrete work is in progress the consultant could not give any comments regarding the design mix.
9	Cement plastering	-	<ul style="list-style-type: none"> Cement plastering works not yet started. 	<ul style="list-style-type: none"> Cement plastering works. 	<ul style="list-style-type: none"> NA
10	Antiskid Tiles	-	<ul style="list-style-type: none"> Not yet started. 	<ul style="list-style-type: none"> Antiskid tiles at all level. 	<ul style="list-style-type: none"> NA
11	Wall Tiles	-	<ul style="list-style-type: none"> Not yet started. 	<ul style="list-style-type: none"> Providing of vitrified floor tiles at all levels. 	<ul style="list-style-type: none"> NA
12	Marble flooring	-	<ul style="list-style-type: none"> Not yet started. 	<ul style="list-style-type: none"> Marble stone slab flooring at all levels. 	<ul style="list-style-type: none"> NA
13	Aluminium doors, window and other works.	-	<ul style="list-style-type: none"> Not yet started 	<ul style="list-style-type: none"> Providing, fitting and fixing anodized aluminum windows, doors, ventilators etc. 	<ul style="list-style-type: none"> NA
14	Block board shutters.	-	<ul style="list-style-type: none"> Not yet started. 	<ul style="list-style-type: none"> Providing and fixing flush door shutters. 	<ul style="list-style-type: none"> NA
15	Reinforcement	-	<ul style="list-style-type: none"> Reinforcement works has been completed. 	<ul style="list-style-type: none"> NIL 	<ul style="list-style-type: none"> NIL
16	Roof Truss	-	<ul style="list-style-type: none"> Not yet started. 	<ul style="list-style-type: none"> Providing fitting, hoisting and fixing of roof trusses. 	<ul style="list-style-type: none"> NA
17	Roofing sheet	-	<ul style="list-style-type: none"> Not yet started. 	<ul style="list-style-type: none"> Providing Pre Painted Galvalume Sheet Roofing and plain polycarbonate transparent sheet roofing at all levels. 	<ul style="list-style-type: none"> NA
18	Grills	-	<ul style="list-style-type: none"> Grillwork for windows/clerestory has not yet started. 	<ul style="list-style-type: none"> Providing, fitting and fixing of M.S. Grill. 	<ul style="list-style-type: none"> NA
19	Ceiling with Exposed Metal (G.I) Frame work with E-Grid -2430	-	<ul style="list-style-type: none"> Not yet started 	<ul style="list-style-type: none"> Providing and fixing, in position suspended false ceiling using E-Grid. 	<ul style="list-style-type: none"> NA

Ak. Niyat
15/3/21
Aarti Khajimiyat
Consultant (K.C.E)
NEC, Secularist

Sl. No	Approved items of Works	Approved Cost	Achievement found as on date of inspection	Item of work left for completion	Any Deviation with reason
20	Distempering	-	• Not yet started	• Applying one coat of alkali resistance primer on wall surface and other other foreign matter.	• NA
21	Plaster of Paris & Wall Putty	-	• Not yet started	• Surface preparation for walls, ceiling etc, at all levels as specified and directed.	• NA
22	Wall Painting	-	• Not yet started	• Wall painting(two coats) with acrylic emulsion paint on new surfaces.	• NA
23	Painting on Wood and Wood Based Surfaces.	-	• Not yet started	• Applying priming coat and painting two coats over new wood and wood based surfaces.	• NA
24	Painting on Steel and Other Metal Surfaces.	-	• Not yet started	• Applying priming coat and painting two coats over new steel and other metal surfaces.	• NA
25	Exterior Paints/ Coatings	-	• Not yet started.	• Applying one self-priming coat of acrylic emulsion coating with water proofing weather coat.	• NA
26	Aluminium Fittings	-	• Not yet started.	• Supplying, fitting, fixing anodised aluminium fittings of approved make.	• NA
27	Collapsible / Gate	-	• Not yet started.	• Providing and fixing in position collapsible M.S. shutters with vertical channels including applying a priming coat of red lead paint.	• NA
28	Railings	-	• Not yet started.	• Providing and M.S. Tube handrail to steel ladder railing, balcony railing, staircase railing and similar work including applying priming coat of approved steel primer.	• NA

A. K. Mijal
8/3/21
Aarti Khyasamijal
Consultant CSE
NEC, Secretariat

Sl. No	Approved items of Works	Approved Cost	Achievement found as on date of inspection	Item of work left for completion	Any Deviation with reason
29	R.C.C Plies	-	<ul style="list-style-type: none"> During inspection it could be seen that the foundation works have been done at the initial stage, thus the consultant could not give comment regarding the R.C.C. Piles and the type of reinforcement used as it could not been seen anymore at site. 	<ul style="list-style-type: none"> NIL 	<ul style="list-style-type: none"> NA
30	Plinth protection works	-	<ul style="list-style-type: none"> Plinth protection works has been done at site. Thus the consultant could not give any comments regarding the design mix. 	<ul style="list-style-type: none"> NIL 	<ul style="list-style-type: none"> The plinth area of all the floors is more or less the same as that of the approved drawing in the DPR(i.e Ground floor= 718.00 Sqm, 1st floor= 708.00 Sqm, 2nd = 695.00 Sqm, 3rd = 695.00 Sqm)
31	Pre Construction Anti - Termite Treatment	-	<ul style="list-style-type: none"> Since the foundation works has been completed, therefore we can say that anti-termite treatment at the bottom of the foundation and walls has been done. 	<ul style="list-style-type: none"> NIL 	<ul style="list-style-type: none"> NA
SANITARY WORKS		-	<ul style="list-style-type: none"> Works related to sanitary has not yet started. 	<ul style="list-style-type: none"> Sanitary Works 	<ul style="list-style-type: none"> NA
ELECTRICAL WORKS		-	<ul style="list-style-type: none"> Works related to internal and external electrification has not yet started. 	<ul style="list-style-type: none"> Electrical works 	<ul style="list-style-type: none"> NA
LIFT WORKS		2100000.00	<ul style="list-style-type: none"> Lift works has not yet started. 	<ul style="list-style-type: none"> Supplying, installation, testing and commissioning of lift as per detailed specification. 	<ul style="list-style-type: none"> The position of the Lift as per the floor plan in the approved drawing has been changed.
(B). Cost of Services (Internal)					
-Internal Electrification (9% of "A")		2989988.10	-	-	-
-Sanitary Installation (8% of "A")		2657767.20			
-Internal water supply (5% of "A")		1661104.50			

Aarti Khysimmujat
 8/3/21
 Consultant (CE)
 NEC, Secretariat

Sl. No	Approved items of Works	Approved Cost	Achievement found as on date of inspection	Item of work left for completion	Any Deviation with reason
	-External Electrification (4% of "A")	1328883.60			
	-For Concealed electrification (0.75% of "A")	249166.00			
	-Campus lightning (3% of "A")	830552.00			
	-Motor Pump (0.50% of "A")	166110.00			
	-Landscaping (1% of "A")	332221.00			
	-Fire Fighting (0.50% of "A")	166110.00			
	-Internal road, path, fencing etc. (2.50% of "A")	830552.00			
	-Aluminium windows (100.00/sqm of total floor area)	281600.00			
	Sub total "B"	11494054.40	-	-	-
	(C). Cost of Additional works		-	-	-
	-White ant-treatment (325.00/sqm of plinth area)	233350.00			
	-Water proofing exterior paint (1% of "A")	332220.90			
	-Pile foundation (4675.00/sqm of plinth area)	3356650.00			
	-Deep Tube Well (2100.00/Rm of 350.00 Rm)	735000.00			
	-Super-roof and parapet (550.00/sqm of plinth area)	394900.00			
	-Plastic paint (1% of "A")	332220.90			
	- Lift Works	2100000.00			
	-Paver block at yard	206289.60			
	-HVAC 36TR(@33000.00/TR)	1188000.00			
	-Drainage system(@ 975.10/Rm)	175518.00			
	-Vitrified floor Tiles 2500sqm (@1300.00/sqm).	3250000.00			
	-Wall Tiles at toilet 250sqm (@1049.33.00/sqm).	262332.50			
	-Granite flooring 300sqm (@2443.02.00/sqm).	732906.00			

A. M. M. J. A.
8/3/21
Aarti Khurammyat
Consultant G.E.
NEC, Secretariat

Sl. No	Approved items of Works	Approved Cost	Achievement found as on date of inspection	Item of work left for completion	Any Deviation with reason
	Sub total "C"	13299388.90	-	-	-
	Total Cost (A)+(B)+(C)	58015531.00	-	-	-
	Approved cost (Excluding the Charges)	58015531.00	-	-	-

(IV) Location Of The Project:

Latitude: 26°11' N

Longitude: 91°47'E

Project is for construction of G + 3 building with total building area: 2816 Sqm

(V) Overall Remarks and Suggestions:-

During inspection the following observations were made:

- In conclusion to the above report, it could be said that the construction works at site were in progress. Till date the total progress of works at site was about **45-50%**.
- The plinth area of all the floors is more or less the same as that of the approved drawing in the DPR (i.e **Ground floor= 718.00 Sqm, 1st floor= 708.00 Sqm, 2nd = 695.00 Sqm, 3rd = 695.00 Sqm**)
- There are in total **234 nos** of column, **59 nos each** in the **ground floor** and the **3rd floor level**, **58 nos each** in the **1st floor** and the **2nd floor level**. Columns of sizes **(600mm x 400mm), (400mm x 400mm), (300mm x 500mm)**, and beams depth of **500mm** has been constructed at site which is more or less the same as that of the drawing.
- Brickwork has been **done** at site.
- The overall structure of the building has been constructed, thus the structural details such as Reinforcement details, and concrete mix design etc **could not be checked**.
- The position of the **Lift** as per the floor plan in the approved drawing has been **changed**.
- Remaining sanitary works, electrification works, lifts and other components, the implementing agency verbally informed that the remaining works will be started as soon as the building is completed.
- A signboard acknowledging NEC funding was **found** at site

A. Mijat
8/3/21
Arati Khayem Mijat
Consultant CCE
NEC, Secretariat

The outcomes and beneficiaries of the project can be briefly listed as below:

○ **Beneficiaries:**

-The targeted beneficiaries of the project would be the students not only in Assam, but in the entire NE region. As students from all the north eastern states come to Cotton University to pursue higher education in Geology, the new building for the department will meet the overall need of the students.

○ **Outcomes:**


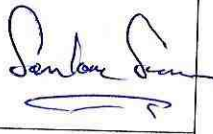
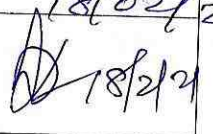
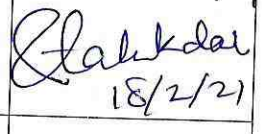
- The new building will meet the long-standing requirement to house the Geology department of Cotton University in a permanent building.

- Students studying in the department, coming from all the north eastern states, with a dream to excel in the field of Geology, will be benefitted by getting better facilities and infrastructure. Such a course is of high demand among graduate students from various streams, particularly of engineering and science background and will be first of its kind in the entire north-east India. Only very few institutions/universities across India have been presently offering such a course.

-With this state-of-the-art infrastructure, the department will open some new courses in the broad areas of Earth Sciences. . The department has already started working on a new course viz. M.Sc./PG Diploma in Geoinformatics, which will be implemented as soon as the new building is ready for use.

A. Nujat
2/3/21
Aarti Khyiemnujat
Consultant CCE
NEC, Secretariat

List of officials who were present during the inspection of NEC funded project
 "Construction of building for the department of Geology in Cotton College, Guwahati, Assam"
 on 18/02/2021

Sl. No.	Name	Contact No. & Email id	Designation & Organisation/Department	Signature
1.	Prof DK Don	910726585	Registrar Cotton Univ	 18/2/21
2.	Dr. Santanu Sarma	9864044193	Asst. Prof Geology Deptt	 18/2/21
3.	Srisaikatram	9435352474	Finance Officer	 18/2/21
4.	A. Goswami	995449774	Consultant (Electrical)	 18/2/21
5.	Bipul Ch. Baruah	9435054756	C-E & Tech. Consultant	 18/02/21
6.	Rajib G. Sarma	9435045710	Executive Engineer	 18/2/21
7.	Ranjib Barua	9864060628	Architect	 18/2/21
8.	Surajit Talukdar	9706679079	JE (Civil)	 18/2/21
9.	Aarti Khymenrajat	8974593379	Consultant CE (NEC, Shillong)	 18/2/21
10.				



Overall view of the building for the "Construction of building for the department of Geology in Cotton College", Guwahati, Assam



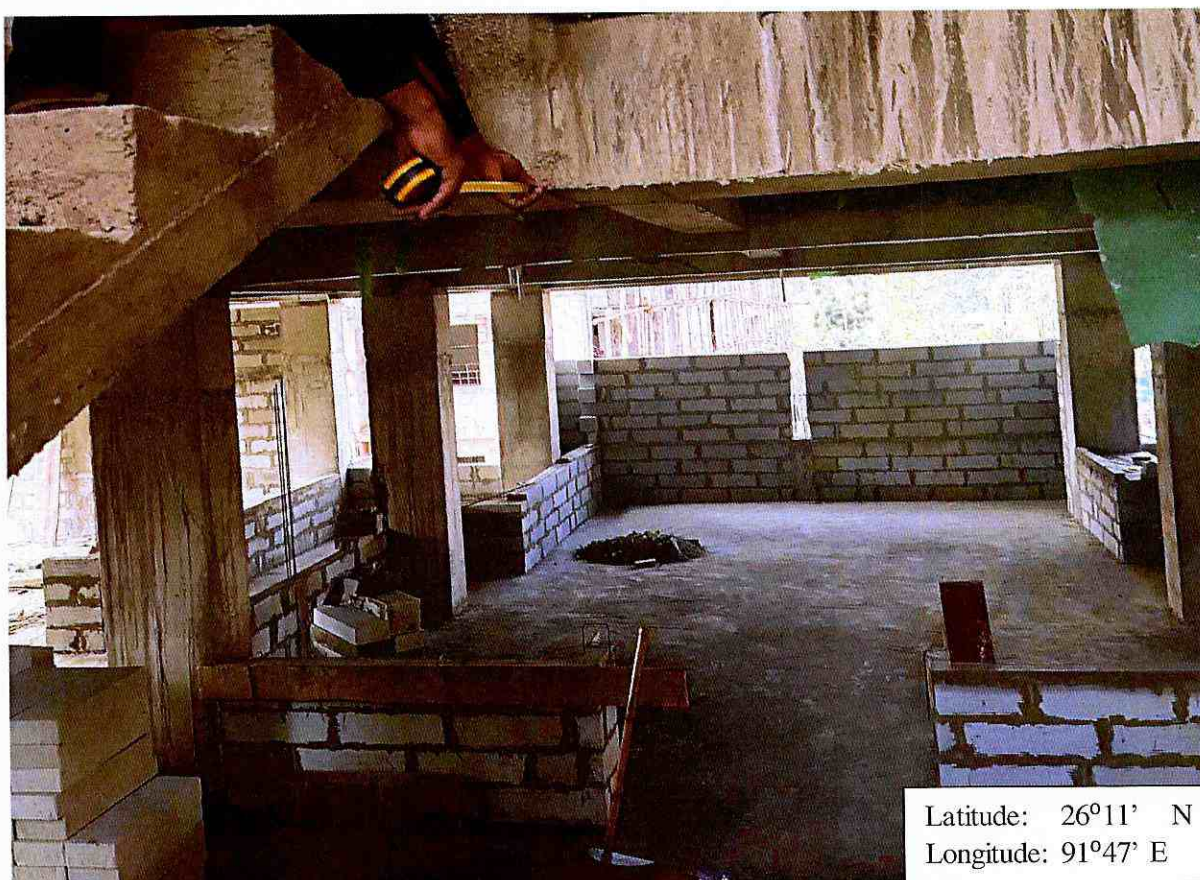
Front View of the building for the "Construction of building for the department of Geology in Cotton College", Guwahati, Assam

Amit Khysimujat
Aarti Khysimujat
Consultant (CE)
NEC, Secretariat



Latitude: 26°11' N
Longitude: 91°47' E

View Inside of the building for the “Construction of building for the department of Geology in Cotton College”, Guwahati, Assam



Latitude: 26°11' N
Longitude: 91°47' E

Photo showing the work in progress of the rooms of the building for the “Construction of building for the department of Geology in Cotton College”, Guwahati, Assam

A. Mijjat
Arti Khysiem Mijjat
Consultant (CEE)
NEC, Secretariat



Latitude: 26°11' N
Longitude: 91°47' E

View of the staircase towards the 1st floor level of the building for the “Construction of building for the department of Geology in Cotton College”, Guwahati, Assam



Latitude: 26°11' N
Longitude: 91°47' E

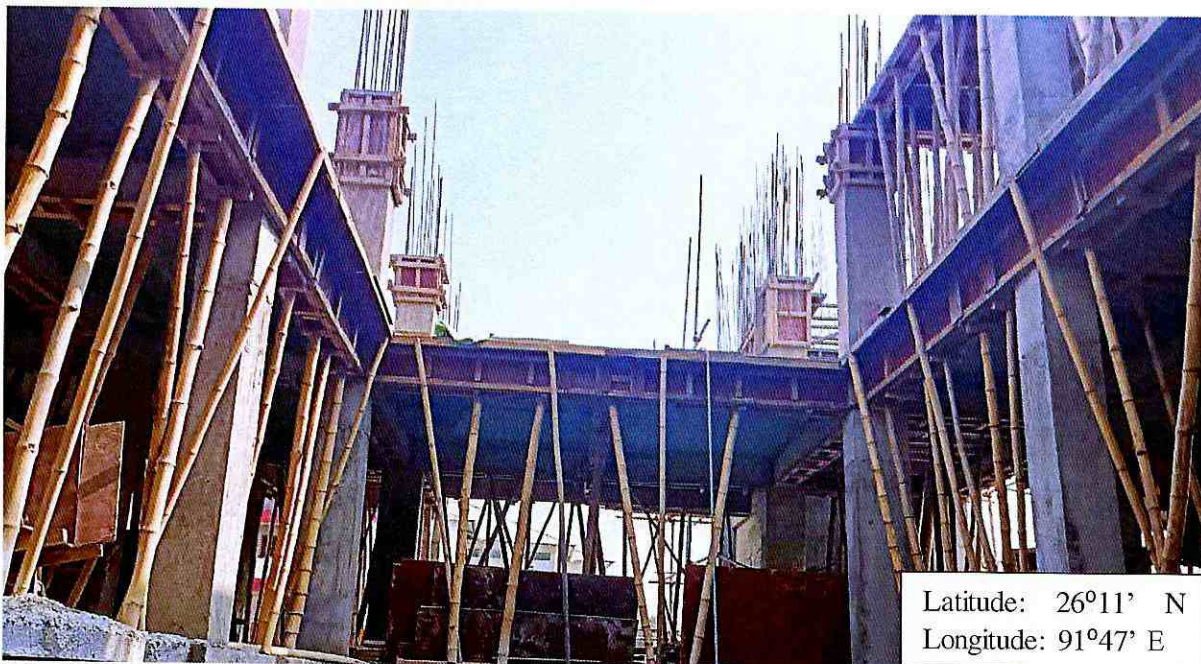
Photo showing the Autoclave Aerated Concrete Block used for the “Construction of building for the department of Geology in Cotton College”, Guwahati, Assam

A. Mijat
Arti Physics Mijat
Consultant (CE)
NEC, Secretariat



Latitude: 26°11' N
Longitude: 91°47' E

Photo of the inspection team measuring the column of the building for the “Construction of building for the department of Geology in Cotton College”, Guwahati, Assam



Latitude: 26°11' N
Longitude: 91°47' E

Photo showing the shuttering work in progress for beams in Second floor level of the building for the “Construction of building for the department of Geology in Cotton College”, Guwahati, Assam

A. Mijat
Aarti Khynem Mijat
Consultant (CC)
NEC, Secretariat



Photo of the signboard acknowledging NEC funding , for the “Construction of building for the department of Geology in Cotton College”, Guwahati, Assam



Photo of the inspection team along with official of the Implementing department at the project site for the “Construction of building for the department of Geology in Cotton College”, Guwahati, Assam

A. K. Khayyat
Consultant CCE
NEC, Secretariat.