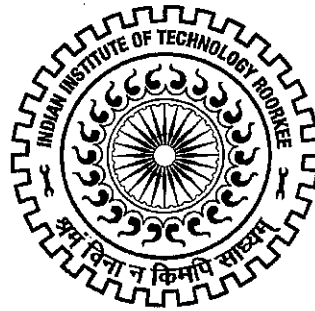


भवन एवं निर्माण कार्य समिति  
की दशम् बैठक का कार्यवृत्त

**MINUTES OF THE TENTH MEETING OF THE  
BUILDING & WORKS COMMITTEE**

**1<sup>ST</sup> JULY 2005**

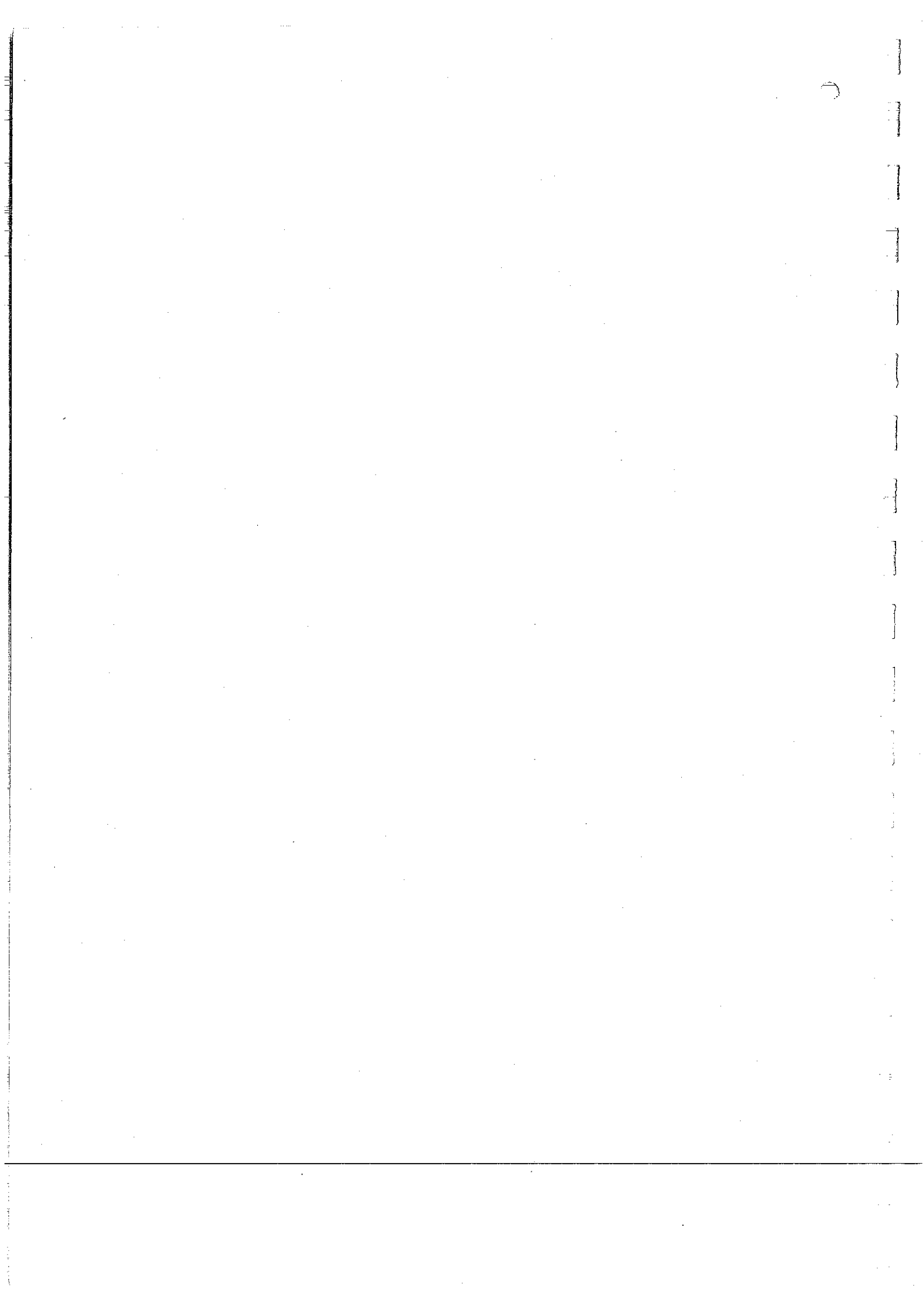


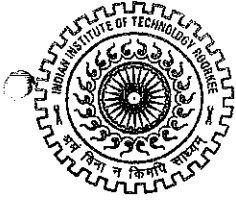
**भारतीय प्रौद्योगिकी संस्थान रुड़की**

**रुड़की — 247 667 (भारत)**

**INDIAN INSTITUTE OF TECHNOLOGY ROORKEE  
ROORKEE - 247 667 (INDIA)**

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भारतीय प्रौद्योगिकी संस्थान रुड़की

(पूर्व रुड़की विश्वविद्यालय)

रुड़की - 247 667, उत्तरांचल, भारत

INDIAN INSTITUTE OF TECHNOLOGY ROORKEE

(Formerly University of Roorkee)

ROORKEE - 247 667, UTTARANCHAL, INDIA

Fax : (91) 1332 - 285310, 273560

Tele. : (91) 1332 - 272430, 285311(O), 272445, 285312 (Res.)

e-mail : regis@iitr.ernet.in / srivastava-a@lycos.com

Lt Col A K Srivastava (Retd)  
Registrar

No. IITR/MS/10<sup>th</sup> B&WC/2005/  
Dated 12<sup>th</sup> July 2005

**Subject: Recommendations (Minutes) of the 10<sup>th</sup> meeting of the Building & Works Committee held on 1<sup>st</sup> July 2005.**

Enclosed herewith please find a copy of the recommendations (minutes) of the 10<sup>th</sup> meeting of the Building & Works Committee of this Institute held on 1<sup>st</sup> July 2005 for favour of information of the members and record. Members who attended the meeting are requested to kindly offer their comments, if any, within 20 days. If no comments are received, it will be presumed that they have no comments to offer and approve of the minutes as recorded.

Encl: as above

Yours faithfully,

(A.K.Srivastava)

Lt. Col. (Retd)

Registrar &  
Secretary, B&WC

1. Prof. Prem Vrat  
Director  
Indian Institute of Technology, Roorkee  
(Chairman)
2. Er. S. P. Singh  
Chief Engineer, C.P.W.D.  
Kendriya Bhawan  
III Floor, Sector K, Aliganj  
Near Purana Chauraha  
Lucknow (U.P.)
3. Director (T)  
Department of Secondary & Higher Education  
Govt. of India  
Ministry of Human Resource Development  
Shastri Bhawan  
New Delhi 110 001

4. Er. Prahlad Singh,  
Dy. G. M.,  
Uttaranchal Power Corporation Ltd.,  
Roorkee - 247 667
5. Prof. V.K.Gupta  
Chairman, Estate & Works  
Indian Institute of Technology Roorkee
6. Prof. S.C.Solanki  
Department of Mechanical & Indl. Engg.  
Indian Institute of Technology Roorkee
7. Prof. H.O.Gupta  
Department of Electrical Engineering  
Indian Institute of Technology Roorkee
8. Prof. N.M.Bhandari  
Department of Civil Engineering  
Indian Institute of Technology Roorkee
9. Er. Salek Chand  
Institute Engineer  
Indian Institute of Technology Roorkee
10. Prof. S.Ray  
Dean Administration  
Indian Institute of Technology Roorkee  
-Permanent Invitee
11. Prof. S.P.Gupta  
Professor-in-Charge, Planning  
& Nodal Officer (MHRD), IITR  
- Permanent Invitee
12. Lt. Col. (Retd) A. K. Srivastava  
Registrar  
Indian Institute of Technology Roorkee  
- Secretary

**INDIAN INSTITUTE OF TECHNOLOGY ROORKEE**  
**ROORKEE - 247 667**



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**Minutes of the 10<sup>th</sup> meeting of the Building & Works Committee held on 1<sup>st</sup> July 2005 at 12.00 Noon in the Board Room of the Institute.**

The following were present:

1. Prof. Prem Vrat, Director - Chairman
2. Er. S.P. Singh, Chief Engineer, CPWD, Lucknow - Member
3. Prof. V.K. Gupta, Chairman, E&W - Member
4. Prof. S.C. Solanki, Deptt. of Mech. & Indl. Engg. - Member
5. Prof. H.O. Gupta, Deptt. of Electrical Engg. - Member
6. Prof. N.M. Bhandari, Deptt. of Civil Engg. - Member
7. Er. Salek Chand, Institute Engineer - Member
8. Prof. S. Ray, Dean Administration - Permanent Invitee
9. Prof. S.P. Gupta, Professor-in-Charge, Planning & Nodal Officer (MHRD), IITR - Permanent Invitee
10. Lt. Col. (Retd) A.K. Srivastava, Registrar - Member Secretary

The Chairman, Building & Works Committee welcomed the members to the 10<sup>th</sup> Meeting of the Committee.

Before taking up the agenda items, the Committee thanked the under-mentioned outgoing members and recorded its appreciation for their valuable contribution in the meetings of the Committee.

1. Mr. Hulas Singh  
Director (T)  
Govt. of India  
MHRD, New Delhi
2. Mr. S.K. Grover,  
Dy. Financial Advisor  
Govt. of India  
Ministry of Urban Development & Poverty Alleviation  
New Delhi
3. Er. R.C. Mittal  
Chief Engineer  
PWD, Dehradun
4. Director  
CBRI, Roorkee

The Committee also welcomed the under-mentioned new members and hoped for their valuable contribution and active participation in its functioning.

1. Prof. S.C. Solanki  
Department of Mechanical & Industrial Engineering,  
Indian Institute of Technology Roorkee
2. Prof. H.O. Gupta  
Department of Electrical Engineering,  
Indian Institute of Technology Roorkee
3. Prof. N.M. Bhandari  
Department of Civil Engineering  
Indian Institute of Technology Roorkee

**Deliberations:**

Thereafter, the items on the Agenda were discussed, and the deliberations/ recommendations are summarized as under:

**Item No. 10.1.0 Confirmation of the minutes of the Seventh Meeting of the Building & Works Committee held on 10<sup>th</sup> February 2005.**

Having received no comments, the minutes of the above meeting as recorded and circulated, were confirmed.

**Item No. 10.2.0 Action taken Report on the minutes of the Seventh Meeting of the Building & Works Committee held on 10<sup>th</sup> February 2005**

The B&WC noted the actions taken on the minutes of the above meeting, as given on page 2-3 of the agenda note.

**Item No. 10.3.1 To consider the Preliminary Estimate as submitted by the CPWD for providing a Sub-station, one DG Set and two Lifts in the New Library Building.**

The Committee decided that the Preliminary Estimate for Rs. 80.00 lacs (**Appendix 'A'**), submitted by the CPWD for a Sub-Station, one DG Set and two Lifts in the New Library Building be approved and placed before the FC/BOG for specific approval.



**Item No. 10.3.2 To consider the Preliminary Estimate of Rs. 85.51 lacs for Furniture and Furnishing of the Main Guest House.**

After discussion, the Committee decided that an amount of Rs. 50.00 lacs be tentatively earmarked for the furniture and the furnishings of the Main Guest House, with the under-mentioned proviso:

- (a) No TV Set and TV Trolley should be provided in the guest rooms of the twin room suites.
- (b) One Fridge be provided in each room.

Further decided that the under-mentioned sub-committee be constituted to ascertain the requirement and quality of furniture, furnishings and other accessories for the Main Guest House:

- 1. Prof. S. Ray, Dean Administration Chairman
- 2. Prof. V.K. Gupta, Chairman, E&W
- 3. Prof. S.P. Gupta, Professor-in-Charge Planning
- 4. Prof. N.M. Bhandari, Deptt. of Civil Engineering

The Committee also decided that the estimate for furniture etc. be linked with the main estimate, in order to avoid duplication and account for omissions, if any. In addition, furniture for an auditorium, which will replace the proposed Gymnasium in the Main Guest House, should also be identified and budgeted. The complete estimate should be made available within 15 days for consideration by the Finance Committee/Board of Governors.

**Item No. 10.3.3 To consider the revised Preliminary Estimate of Rs. 726.00 lacs for construction of 28 Nos. Multi Storied Faculty residences (Phase- I) as submitted by the CPWD.**

Decided that the CPWD be apprised that the building should first be completed, and the revised estimate, if any, submitted as per the actual execution cost. The Chief Engineer, CPWD informed that the tentative cost of the building is not likely to exceed 10% above the original sanctioned estimate, which is permissible under the rules, hence no revised estimate may be required.

**Item No. 10.3.4 To consider the revised Preliminary Estimate of Rs. 657.00 lacs for the construction of 28 Nos. Multi storied faculty residences (Phase-II) as submitted by the CPWD.**

Same as item No. 10.3.3.

**Item No. 10.3.5 To consider the Preliminary Estimate of Rs. 835.66 lacs submitted by CPWD for the construction of a New Boys' Hostel of 400 Seats.**

At the outset, the Director (Chairman) stated before the Committee that there was an urgent need for the construction of a new Boys' Hostel having at least a 400 seat capacity. After discussion, the Committee decided that the Preliminary Estimate of Rs. 835.66 lacs (**Appendix 'B'**) submitted by the CPWD for the construction of a New Boys' Hostel having a capacity of 400 seats, be approved.

The Committee further decided that the site adjacent to the Rajendra Bhawan be frozen for the New Boys' Hostel.

**Item No. 10.3.6 To consider the Preliminary Estimate of Rs. 835.66 lacs submitted by CPWD for the construction of a New Girls Hostel of 400 Seats.**

The Committee decided that the Preliminary Estimate of Rs. 835.66 lacs (**refer Appendix 'B'**) submitted by CPWD for the construction of a New Boys' Hostel of 400 Seats, be also adopted for the Girls' Hostel.

The Committee further decided that the five existing residences on the Thomason Marg, be demolished to accommodate the new girls' hostel. These residences must not be allotted on vacation.

**Item No.10.3.7 To consider the re-cast Preliminary Estimate for construction of the Community Centre, amounting to Rs. 200.00 lacs, due to an increase in the Cost Index for Roorkee.**

After discussion, the Committee decided that no revised estimate is needed. CPWD be apprised to complete the construction within the permissible

variation of 10% above the original sanctioned estimate of Rs. 173.00 lacs.

**Item No. 10.3.8 To consider the demolition of 39 old D-category residences bearing Nos. 66/1 to 66/9, 67/1 to 67/11, Gora Barracks, 147/1 to 147/14, and 147/17 to 147/21 Vikas Nagar and 18 Category 'A' shelter residences bearing Nos. 65/1 to 65/6, 66/1 to 66/6, 67/1 to 67/6 Ravidra Lok.**

The Committee decided that the demolition of 39 old D-category residences bearing Nos. 66/1 to 66/9, 67/1 to 67/11, Gora Barracks, 147/1 to 147/14, and 147/17 to 147/21 Vikas Nagar, and 18 Category 'A' shelter residences bearing Nos. 65/1 to 65/6, 66/1 to 66/6, 67/1 to 67/6 Ravidra Lok, be approved.

**Item No. 10.3.9 To consider the status report of Greater Noida Extension Centre.**

At the outset, the B&WC expressed serious concern over the inordinate delay on the part of the CPWD, Delhi Outer Zone in submitting the drawings for the proposed Centre.

After discussion, the Committee decided that a Project Management Consultant for the Greater Noida Extension Centre be appointed and D.G., CPWD/Chief Engineer, CPWD, North Zone II, Lucknow, may be requested to suggest the name of a retired Chief Engineer for the same. In addition, the CE, CPWD, Delhi Outer Zone, be authorized to choose an Architect from the approved panel of Architects of the CPWD, North Zone II, Lucknow and to go ahead with the preparation of the Architectural Plans. The Chief Engineer, CPWD, Delhi Outer Zone, may be requested to send the complete action plan with the time frame, for early completion of the project.

**Item No.10.3.10 To consider allocation of budget to the Central Museum of Engineering and Technology for the purpose of drawing up Architectural Plans for converting the existing Library Building into the Museum.**

After discussion, the Committee decided that the Chief Engineer, CPWD, North Zone II, Lucknow, be requested to prepare an Architectural and Technical

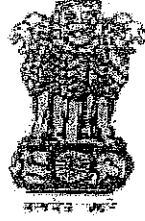
feasibility report with an estimate, within two months. The Project Monitoring Group for the Museum may request for allocations for its operating expenses, from the Budget Committee.

**Item No. 10.3.11 Progress report of the on going Major Works.**

The progress of the on going Major Works given at **Appendix 'C'** was noted with the under mentioned observations:

1. The Chief Engineer, CPWD, North Zone II, Lucknow may be informed that;
  - (a) The Construction of 28 Nos. MS Faculty residences: Phase-I, should be completed by 15<sup>th</sup> July 2005.
  - (b) The Construction of 28 Nos. MS Faculty residences: Phase-II, should will be completed by 31<sup>st</sup> August 2005.
2. Garbage disposal chutes be provided in all the 56 MS Faculty residences.
3. The MS Faculty residences be given the name "M.S. Apartments" and the four blocks numbered: 'A', 'B', 'C' and 'D', respectively. The flats in each block will be numbered from 1 to 14 e.g. A-1 to A-14, B-1 to B-14, etc.
4. The Main Guest House should be completed by 30<sup>th</sup> November 2005.
5. The Library building should be completed by 30<sup>th</sup> December 2005.

The meeting ended with a vote of thanks to the Chair.



भारत सरकार  
GOVERNMENT OF INDIA

मुख्य अभियंता (वैद्युत) (उ०क्षे०)  
केन्द्रीय लोक निर्माण विभाग  
पूर्वी खण्ड-1, तल-5,  
आर०के०पुरम्, नई दिल्ली-66.

CHIEF ENGINEER (ELECT.) (NR)  
CENTRAL PUBLIC WORKS DEPARTMENT  
EAST BLOCK-1, LEVEL-V,  
R.K.PURAM, NEW DELHI-66.

प्रारम्भिक प्राक्कलन  
PRELIMINARY ESTIMATE

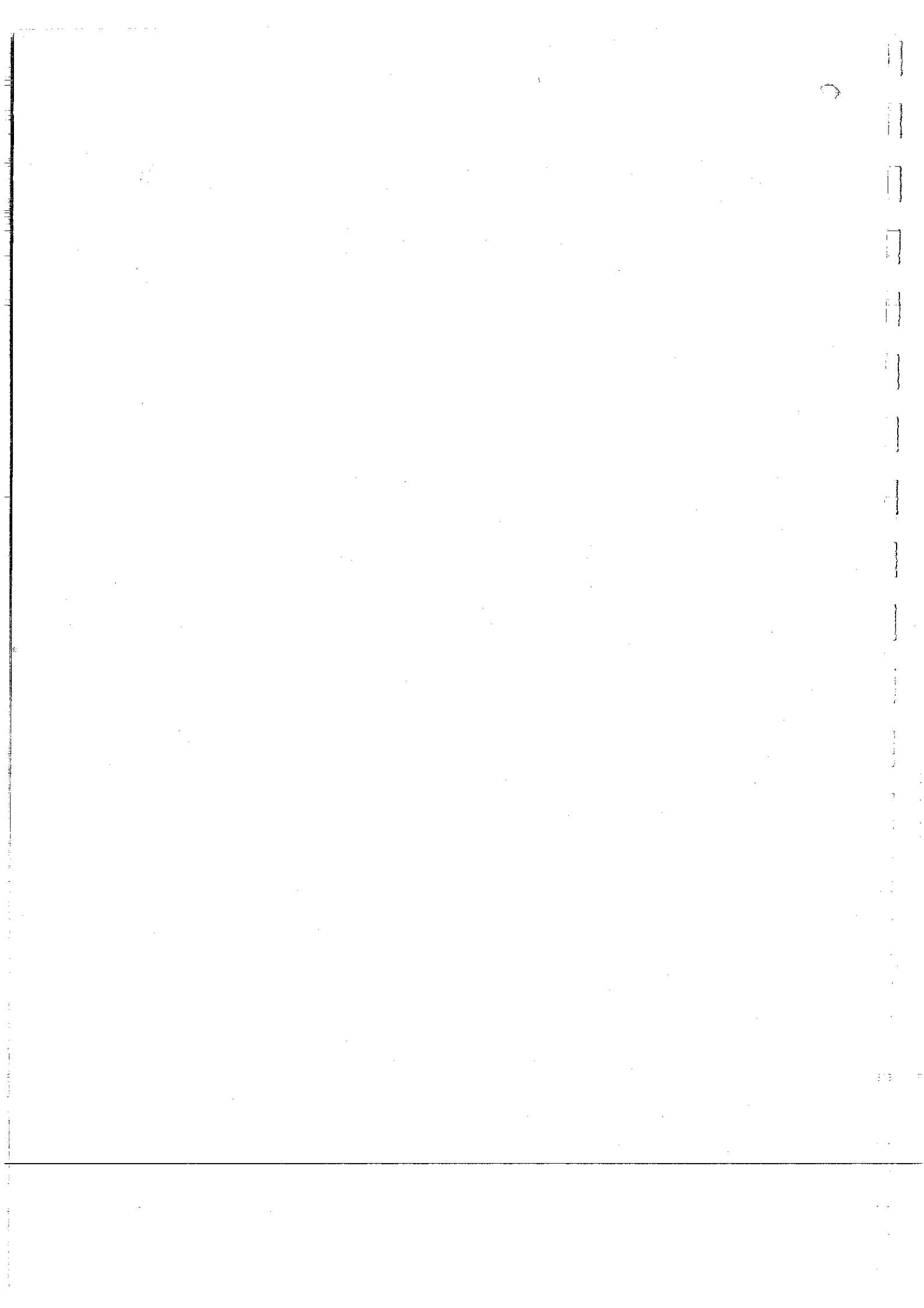
कार्य का नाम

NAME OF WORK: Providing Sub-Station, D.G.Sets and Lift in New  
Library Building at IIT, Roorkee.

अनुमानित लागत:

Rs. 1,19,00,000/-

ESTIMATED COST:



Govt. of India  
Central Public Works Department

State: UTTARANCHAL  
Divn. DCED, Dehradun.

Branch: E & M.  
Circle: LCEC, CPWD, Lucknow.

**Name of Work:-** Providing Sub-Station, D.G.Sets and Lift in New Library Building at IIT, Roorkee.

**Head of Account:-** Deposit Work

Preliminary Estimate framed by Sh.V.K.Mittal, Superintending Engineer (El.), Lucknow Central Electrical Circle, CPWD, Lucknow for the probable cost of Rs.1,19,00,000/= including contingencies.

**REPORT**

**History:-** For construction of New Library Building at IIT Roorkee, there is administrative approval of Rs.12.00 Lac where in following provisions for electrical works have been kept.

(i)	Internal Electrical Installation	Rs. 92.50 Lac
(ii)	Air Conditioning	Rs.300.00 Lac
(iii)	Fire Alarm System	Rs. 13.50 Lac
(iv)	Fire Fighting System	Rs. 13.00 Lac
(v)	Street Light & Compound Light	Rs. 1.50 Lac

Total	Rs.420.50 Lac
Add contingencies 3%	Rs. 12.62 Lac

Total	Rs.433.12 Lac
-------	---------------

The detailed estimate have been prepared by consultant M/s C.P.Kukreja & Associates. The likely completion cost of above services work out as under:-

(i)	Internal Electrical Installation	Rs. 107.50 Lac
(ii)	Air Conditioning	Rs. 275.00 Lac
(iii)	Fire Alarm & Fire Fighting	Rs. 40.00 Lac
(iv)	External Street Light	Rs. 5.00 Lac

Total	Rs. 427.00 Lac
-------	----------------

Besides above services, following services are also essentially required for completion of the above building.

- (i) Sub-Station.
- (ii) D.G.Set
- (iii) 4 Nos. Passenger Lifts.

It is not possible to provide above services out of the sanctioned estimate provisions.

The Institute Engineer, IIT Roorkee vide his No.E&W/1011/AEE(E) dated 10-1-2005 has desired preparation of separate estimate for above services so that approval of Building and Works committee is obtained.

Design & Scope: The library building is centrally air-conditioned and two screw type chilling units of 250 TR each are being proposed. Taking into account, light load and that of AHUs, pumps, cooling tower etc.and the starting current of chilling units, 2 Nos. Transformers of 630 KVA are required for library building.

The Institute Engineer, IIT, Roorkee vide No. Const./280/AEE(E), dated 20-2-2004 has desired to feed MBA building from library sub-station and suggested to increase the capacity of transformers from 2 x 630 KVA to 2 x 800 KVA. Accordingly it is proposed to install 2 Nos. Transformers of 800 KVA each. The Transformers are proposed to be dry type which are safe from fire safety angle and maintenance free.

IIT is proposing to interlink all the sub-stations through H.T.Cable network and ring main units for flexibility and reliability. As per the scheme prepared by IIT and received vide their letter dated 20-2-2004, it is proposed to provide 5 Panel H.T.Board at MBA sub-station. Normally 3 Panel H.T.Board would have been adequate. However to meet IIT's proposed requirement, it is proposed to provide 5 Panel HT Board in the library sub-station. The H.T.Panel will consist of Vacuum Circuit Breaker (VCB) which is latest in technology and widely used in such application. The fault level of 350 MVA has been selected. Relays will be provided for protection. Provision of metering and indication shall be kept in H.T.Panel.

For essential supply, DG Set is being proposed. Provision of L.T.Panel for non essential & essential load has been kept in the estimate. Adequate feeders will be provided for library building and MBA building. Spare feeders will be provided for extending to other loads and for maintenance also.

Provision of internal cable/bus duct inside the sub-station and L.T.Cable to library building has been kept. Provision of earthing & safety equipment has also been kept in the estimate.

In the event of normal supply failure, it is proposed to provide DG Set. The entire light, fans, computers, lift, water supply pump etc. are proposed to be connected on D.G.Set. Central air conditioning high side equipment are not proposed on D.G.Set. However AHU blowers are proposed to be connected on D.G.Set. Taking into account above load, the capacity of DG Set is proposed to be 250 KVA. The DG Set shall be AMF type and complete with acoustic enclosure etc.



In architectural drawings of Library Building prepared by the consultant M/s C.P.Kukreja & Associates, New Delhi, 4 Nos.lifts are proposed. It is proposed to provide 4 Nos. passenger lifts. The library will be used not only by students, but also old and sick persons. In addition the lifts will be used taking the books from one floor to other floor which will be required on daily basis.

**Following provisions have been kept in this estimate.**

- ✓(i) 5 Panel H.T.Board (As per scheme of IIT vide letter dated 20-2-2004)
- ✓(ii) 2 x 800 KVA Transformer (As per requirement of IIT vide letter dated 20-2-2004)
- ✓(iii) L.T.Panel for essential and non essential load .
- ✓(iv) Interconnecting cable between H.T.Panel, Transformer & L.T.Panel.
- (v) Outgoing cable to library building only.
- (vi) Earthing & safety equipment.
- (vii) 4 Nos. lifts.

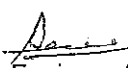
**Following provisions have not been kept in this estimate.**

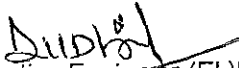
- (i) Building for sub-station (The building is being constructed out of the existing sanction for library building.)
- (ii) H.T.Cable up to sub-station (This will be extended by IIT from their sub-station as per their scheme)
- (iii) Outgoing feeders to building other than library.  
(Spare feeders will be provided, cable as per requirement will be extended by IIT)


**Method:-** The work will be done on contract.  
**Cost:-** Rs. 1,19,00,000/=

**Time:-** 6 months.

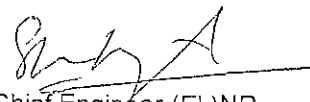
**Rate:-** Current Market Rate

  
Asstt. Engineer (El.)PI.  
Lucknow Cent.Elect.Circle,  
CPWD, Lucknow.

  
Executive Engineer (El.)PI.  
Lucknow Cent.Elect.Circle,  
CPWD, Lucknow.

  
Superintending Engineer (E.)  
Lucknow Cent.Elect.Circle,  
CPWD, Lucknow.


  
Superintending Engineer (El.)PI.  
O/ the Chief Engineer (El.) NR  
CPWD, New Delhi.

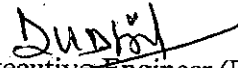
  
Chief Engineer (El.)NR  
CPWD, New Delhi.

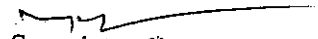
## ABSTRACT OF COST


Name of work :- Providing Sub-Station, D.G.Sets and Lift in New Library Building at IIT, Roorkee.

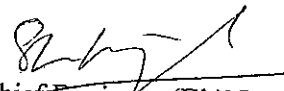
S.No.	Sub Head	Amount
1-	Sub Head- 'A' (Sub-Station) :	6600000.00
2-	Sub Head- 'B' (DG Set) :	1600000.00
3-	Sub Head- 'C' (Lift.) :	3200000.00
	<b>TOTAL</b>	11400000.00
	<b>Add contingencies @5%</b>	500000.00
	<b>Subject to a maximum of Rs.500000/-</b>	500000.00
	<b>TOTAL</b>	11900000.00

  
Assistant Engineer (El.)Pl.  
Lucknow Cent.Elect.Circle.,  
CPWD, Lucknow.

  
Executive Engineer (El.)Pl.  
Lucknow Cent.Elect.Circle.,  
CPWD, Lucknow.

  
Superintending Engineer (El.)  
Lucknow Cent.Elect.Circle.,  
CPWD, Lucknow.

  
Superintending Engineer (El.)Pl.  
O/o Chief Engineer (El.)NR,  
CPWD, New Delhi.

  
Chief Engineer (El.)NR,  
CPWD, New Delhi.

## SCHEDULE OF WORK

Name of work :- Providing Sub-Station, D.G.Sets and Lift in New Library Building at IIT, Roorkee

<u>S.No.</u>	<u>Description of item</u>	<u>Qty.</u>	<u>Rate</u>	<u>Unit</u>	<u>Amount</u>
<b><u>SUB HEAD 'A' : SUB-STATION</u></b>					
1-	S/I/T/C 5 Panel H.T.Board 350 MVA with VCB and relays etc.	1 Job.	2000000.00	Job	2000000.00
2-	S/I/T/C 800 KVA Dry Type Transformers 11 KV/ 433 Volts.	2 Nos.	1100000.00	Each	2200000.00
3-	S/I/T/C L.T.Panel for essential & non-essential panel.	1 Job.	1200000.00	Job	1200000.00
4-	S/I/T/C Capacitor Panel for Power Factor Improvement.	2 Nos.	225000.00	Each	450000.00
5-	L.T.Bus Trunking between Transformer & LT Panel	L.S.	350000.00	L.S.	350000.00
6-	HT & LT Cable between HT Panel, Transformer & from L.T.Panel to various load inside the Library Building.	L.S.	300000.00	L.S.	300000.00
7-	Earthing & Safety Equipment.	L.S.	100000.00	L.S.	100000.00
<b>TOTAL OF SUB HEAD-'A'</b>					<b>6600000.00</b>
<b><u>SUB HEAD 'B' : D.G.SET</u></b>					
1-	S/I/T/C 250 KVA DG Set with acoustic enclosure, AMF Panel etc.as required.	1 Job.	1600000.00	Job	1600000.00
<b>TOTAL OF SUB HEAD-'B'</b>					<b>1600000.00</b>
<b><u>SUB HEAD 'C' : LIFT</u></b>					
1-	S/I/T/C Passenger Lift suitable for ground & 3 uppor floors.	4 Nos.	800000.00	Each	3200000.00
<b>TOTAL OF SUB HEAD-'B'</b>					<b>3200000.00</b>

*[Signature]*  
Asstt. Engineer (E) P-II  
O/o Chief Engineer (E) NZ  
C. P. W. East Block-I  
Level-V, R. K. Puram,  
New Delhi-110066

*[Signature]*  
Superintending Engineer (E) NZ  
O/o Chief Engineer (E) NZ,  
C. P. W. East Block-I Level-V  
R. K. Puram, New Delhi-66.

Director's Office  
Institute of Technology  
Dy. No. 25  
Signature

भारत सरकार  
केन्द्रीय लोक निर्माण विभाग  
कार्यालय- मुख्य अभियन्ता (उ०अ०-२)  
केन्द्रीय भवन, तृतीय मंजिल,  
सेक्टर 'एच', अलीगंज, लखनऊ

पत्रांक: 23(306)/अ०अभि०(सो०)/पी०-२/

दिनांक: 27/12/2004

150/3-16

सेवा में,  
निदेशक,  
भारतीय प्रौद्योगिकी संस्थान,  
रुड़की

विषय: भारतीय प्रौद्योगिकी संस्थान, रुड़की में लाइब्रेरी भवन का निर्माण कार्य।

महोदय,

उपरोक्त कार्य के लिये संस्थान ने 1200 लाख रु० की स्वीकृति दी है जिसमें वैद्युत कार्यों के लिये 433 लाख रुपये का प्रावधान रखा गया है। कार्य के प्रारम्भिक अनुमान की प्रतिलिपि संलग्न है। प्रारम्भिक अनुमान में लिफ्ट, सब-स्टेशन एवं डीजी सेट का प्रावधान नहीं है। संस्थान के कार्य एवं सम्पदा समिति की बैठक में यह निर्णय लिया गया था कि लिफ्ट, सब-स्टेशन एवं डीजी सेट जिनका लगाया जाना अपेक्षित है, को कार्य में बचत को चार्ज करके लगा दिया जाय। के०लो०मि०वि० 'सम्पदा एवं कार्य समिति' की बैठक में लिये गये निर्णय के अनुसार कार्यवाही कर रहा है।

लाइब्रेरी भवन को पूरी तरह से फंक्शनल करने के लिये सभी प्रावधानों का क्रमबद्ध स्वीकृति के अन्तर्गत किया जाना प्रतीत नहीं हो रहा है और लिफ्ट 2 नं०(8 लाख रुपये प्रत्येक की दर से) सब-स्टेशन एवं डीजी सेट के कारण वैद्युत कार्यों में लगभग 80 लाख रु० की कमी पड़ रही है। भारत सरकार के लेखा नियमों के अनुसार यद्यपि अतिरिक्त राशि कार्य की स्वीकृत राशि के 10 प्रतिशत के अन्तर्गत है फिर भी यह आपके संज्ञान में लाया जाना उचित समझा गया। हम प्रयत्न करेंगे कि यदि कार्य पर किसी अन्य उपशीर्ष में से कहीं कुछ बचत होगी तो उसका समावेश वैद्युत कार्यों में कर लिया जाएगा अन्यथा इस कार्य में 80 लाख रुपये स्वीकृति से अधिक लगाने पड़ेंगे। यदि संस्थान यह चाहता है कि स्वीकृत धनराशि 1200 लाख रुपये के अन्तर्गत ही सब कुछ किया जाय तो इस स्थिति में सब-स्टेशन उपकरण एवं लिफ्ट का लगाया जाना, जो पहले से ही प्रावक्लन में सम्मिलित नहीं है, संभव नहीं होगा। अनुरोध है कि इस बारे में संस्थान हमें अपना निर्णय दे दे।

भवदीय,

अतः प्रशासन / संस्थान अभियन्ता  
रुपमा अमित कार्यालय/रुड़की

(एस०पी० सिंह)  
मुख्य अभियन्ता  
-----2/-

AEE(E)

Pl discuss

अंतर्गत

1351115  
DIRECTOR



भारत सरकार  
GOVERNMENT OF INDIA

मुख्य अभियन्ता (उ०अं०-११)  
केन्द्रीय लोक निर्माण विभाग  
अलीगंज, लखनऊ- 226 024

CHIEF ENGINEER (NZ-II)  
CENTRAL PUBLIC WORKS DEPARTMENT  
ALIGANJ, LUCKNOW- 226 024

प्रारंभिक प्राक्कलन  
PRELIMINARY ESTIMATE

कार्य का नाम :

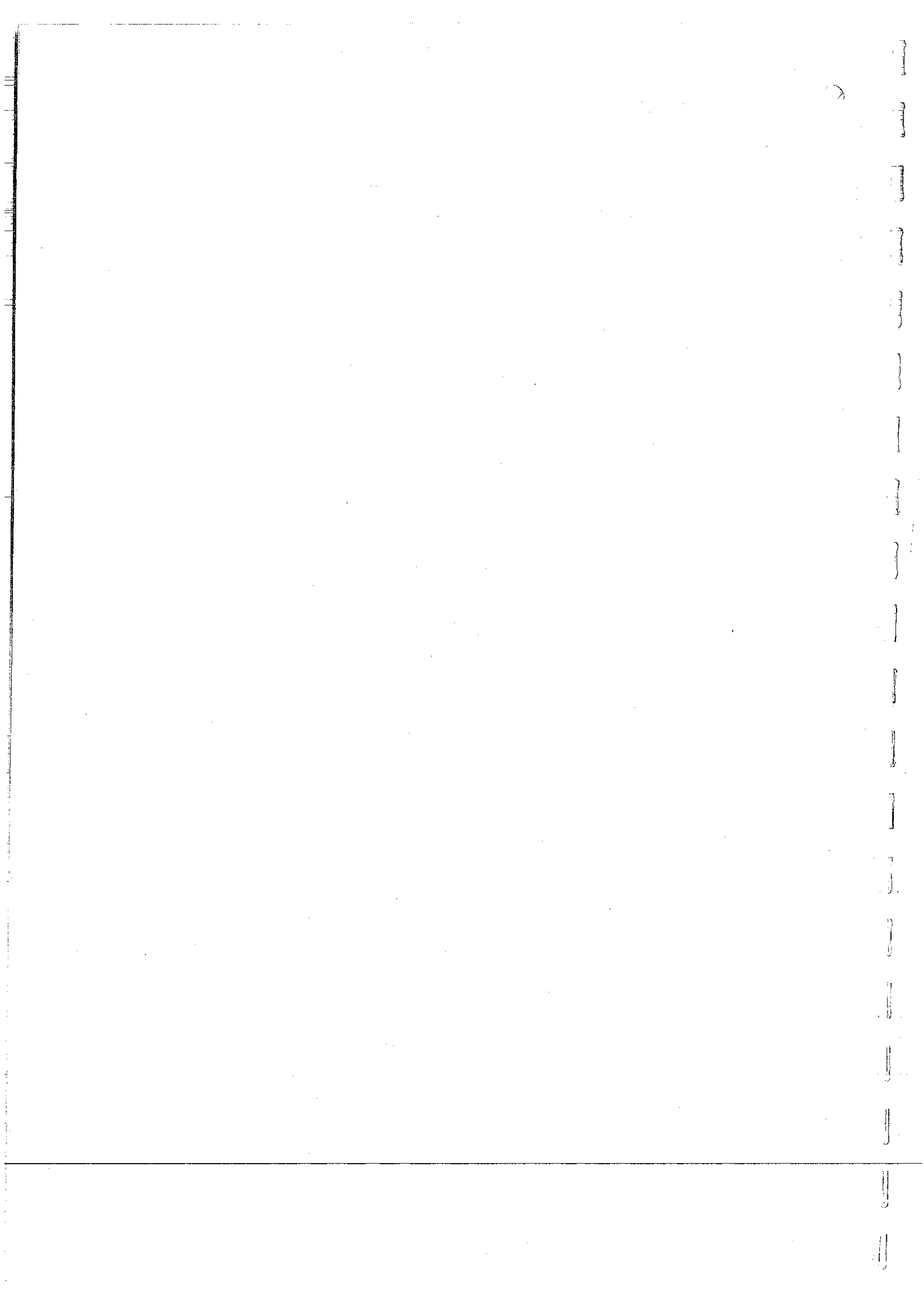
**NAME OF WORKS: Construction of New Boys Hostel of 400 Seats at  
IIT, Roorkee.**

अनुमानित लागत

ESTIMATED COST

Rs. 8,35,66,000.00

**Total Rs. 8,35,66,000.00**



GOVERNMENT OF INDIA  
CENTRAL PUBLIC WORKS DEPARTMENT

State: Uttaranchal                      Division:- Roorkee Central Division                      Branch: B&R

Name of Work: C/o New Boys Hostel of 400 Seats at IIT, Roorkee.

Funds :

Major Head :

Minor Head :                      Deposit

Detailed Head :

Estimate framed by Er. V.K. Asol, Executive Engineer, Roorkee Central Division, CPWD, Roorkee and further processed by Er. Manu Amitabh, Executive Engineer(P-II), NZ-II, CPWD, Lucknow for the probable cost of Rs. 8,35,66,000.00 i/c 3 % contingencies

**REPORT**

**History:** This preliminary estimate amounting to Rs. 8,35,66,000.00 i/c 3% contingencies has been framed to cover the probable cost of above noted work, for obtaining A/A & E/S of the competent authority. The requisition for the above mentioned work has been received from Institute Engineer, IIT Roorkee vide his letter No. E&W/281/1E dated 01-06-2005.

**Design and Scope:** The preliminary estimate has been prepared based on the plinth area of similar Hostel execute recently at IIT Roorkee. Proposed typical plan/sketch is enclosed.

The proposed Hostel will be four storeyed RCC framed structure (100 Rooms at each floor) Floor height is proposed as 3.2 metre. At each floor level 4 Nos. common toilet unit and 4 Nos. staircases are proposed. Kitchen and dining hall having capacity of dining 200 students at a time is located at ground floor. Filler walls 115 mm thick as per Architectural/Structural requirement shall be provided. This estimate provides for Construction of 400 seated new boys hostel with common toilets & passage etc. These rooms shall be constructed on One side of the corridor for better ventilation.

Building portion including internal and external W/S, Sanitary installation and Electrical Installation along with provision of earthquake resistant design and fire fighting, has been considered. Provision of 60,000 ltr. capacity over head water storage tank on the staircase has been kept. Provision has also been made for one power plug in each room along with copper wiring for all electrical installation in side the building.

**Specifications:-** The work shall be carried out as per CPWD specifications 1996 Vol. I to VI with upto date correction slips shall be followed Detailed specification is given below:

**Foundation :**                      RCC Raft foundation (M-25 Mix)

**Superstructure :**                      RCC columns, beams & slabs (M-25 Mix) with 230 mm/115 mm brick wall as per architectural/structure requirements.

**Flooring :**                      Marble chips Mosaic flooring in all rooms. Ceramic glazed tiles flooring in toilets. Kota stone flooring in corridors & Dining Hall.

Door & Windows Block board flush door chassis with T-iron frame and MIS ceiling windows with MIS grills.

Finishing : All internal, external walls shall be plastered with 12mm/15mm cement plaster. All the internal rooms will be dry distemper and external wall will be painted with water proofing cement paint.

Rates:- Plinth area rate 1-1-1992 enhanced by approved CI @ 120% for Roorkee.

Cost:- Rs. 8,35,66,000.00 i/c 3% contingencies


Method:- By contract after call of tender

T & P:- No special T&P is required shall be arranged by the contractor at his own cost.

Land:- Available with client in IIT Campus.

W.C.Estt.:- Will be met out of contingencies.

Period:- 12 Months after call of tender.

  
Assistant Engineer (P)  
NZ-II, CPWD, Lucknow

  
Executive Engineer (P)-II  
NZ-II, CPWD, Lucknow

Superintending Engineer (P)  
NZ-II, CPWD, Lucknow




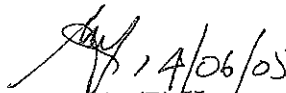
GENERAL ABSTRACT

Name of Work:- Construction of New Boys Hostel of 400 seats at IIT, Roorkee

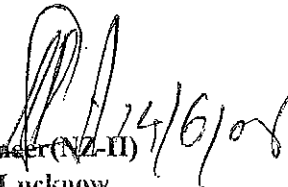
Sl. No.	Description of items	Civil Work	Elect. Work	Total
1	Building Portion	67300200.00	7887889.00	75188089.00
2	Development Work	1652526.00	236434.00	1888960.00
3	Bulk Services	6488691.00	----	6488691.00
<b>Total</b>		<b>75441417.00</b>	<b>8124323.00</b>	<b>83565740.00</b>

Say Rs. 8,35,66,000.00

  
A.E.(P)  
CPWD, Lucknow

  
E.E.(P)/II  
CPWD, Lucknow

S.E.(P)  
CPWD, Lucknow

  
Chief Engineer (NZ-II)  
CPWD, Lucknow

Sl. No.	Description of Items	Quantity	Rate	Unit	Amount
<b>SH: 1 RCC Framed structure</b>					
1.1	RCC framed structure upto six storeys				
1.1.1	Floor height 2.90 mtrs (hostel)	9000.00 sqm	2740.00	sqm	24660000.00
1.2	Extra for:				
1.2.1	Every 0.3 mtr. additional height of floor above normal floor height of 3.35 mtr. / 2.90 mtr.	9000.00 sqm	125.00	sqm	1125000.00
1.2.2	Extra for resisting earth quake force	9000.00 sqm	250.00	sqm	2250000.00
1.2.3	Fire fighting	9000.00 sqm	185.00	sqm	1665000.00
				Total	<b>29700000.00</b>
<b>SH: 2 Services</b>					
2.1	Internal water supply & sanitary installation (Hostel)	25785000.00 B. cost	10.00%	B. cost	2578500.00
2.2	Internal electric installations (Non Resd. Bldg.)	25785000.00 B. cost	12.5%	B. cost	3223125.00
2.3	Extra for Power wiring and plugs	25785000.00 B. cost	1.00%	B. cost	257850.00
				Total	<b>6059475.00</b>
<b>SH 3 Water Tank (RCC Only)</b>					
3.1	Over head tank without independent staging	60000.00 ltr.	4.75	ltr.	285000.00
				Total	<b>285000.00</b>
<b>SH: 4 Development of Site</b>					
4.1	Levelling	7400.00 sqm	10.95	sqm	81030.00
4.2	Internal Roads & Paths	7400.00 sqm	33.95	sqm	251230.00
4.3	Sewer	7400.00 sqm	24.45	sqm	180930.00
4.4	Storm water drains	7400.00 sqm	29.20	sqm	216080.00
4.5	Street Lighting With fluorescent lamp	7400.00 sqm	14.10	sqm	104340.00
				SH Total	<b>833610.00</b>
				Total	<b>36878085.00</b>
	Add cost index @120.00% on Rs. 36878085/-				44253702.00
				Total	<b>81131787.00</b>
	Add contingencies @ 3%				2433954.00
				G. Total	<b>83565741.00</b>
				Say Rs.	8,35,65,740.00

**INDIAN INSTITUTE OF TECHNOLOGY (I.I.T) ROORKEE**  
**PROGRESS OF ONGOING WORKS**

Sl No	Name of Work	Estimated Cost (Rs. In lacs)	Date of Start	Probable date of completion	Date of completion as per Bar Chart	Expenditure upto 31.5.05 Rs. in lacs	Physical Progress	Remarks
1.	Construction of MS Faculty residences (28 Nos.) Phase I	521.00	13.08.03	15.07.05	30.11.04	330.00	Plaster and other finishing work is in progress.	Delay is due to change in drawings & part delay due to slow work by contractor. Action against contractor already initiated.
2.	Construction of MS Faculty residences (28 Nos.) Phase II	521.00	22.11.03	31.08.05	30.3.05	310.00	Brick work on top floor in progress.	Delay is due to slow work by the contractor. Action against contractor initiated. Contractor being pursued vigorously to make up the delay.
3.	Construction of Library Building	1200.00	26.02.04	30.12.05	30.10.05	210.00	First floor slab under casting. Brick work in lower ground floor in progress.	-
4.	Construction of Faculty Club & Community Centre	173.00	-	-	-	-	Tender invited	-
5.	Construction of Main Guest House	235.00	15.11.03	30.11.05	28.2.05	100.00	Finishing work is in progress.	Delay is due to late/improper drawings received from the consultant and retender.
6.	Extension of Dining Hall of Sarojini Bhawan	10.00	01.05.05	31.08.05	31.8.05	5.00	50% work completed.	
7.	Construction of new Sub-stations and strengthening of existing Sub-stations.	370.00	10.6.05	09.12.05	9.12.05	Nil	Work is in progress.	
8.	Re-construction of Roads	125.00	20.5.05	19.10.05	19.10.05	42.00 upto 23.6.05	70% work completed	

