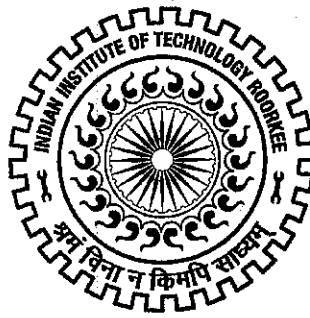


भवन एवं निर्माण समिति  
की सप्तम् बैठक का कार्यवृत्त

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

**26<sup>th</sup> March 2004**



भारतीय प्रौद्योगिकी संस्थान रूड़की  
रूड़की - 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**

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**Lt Col A K Srivastava (Retd)**

Registrar

No. IITR/MS/7<sup>th</sup> B&WC/(3/2004)/ 325  
Dated 2<sup>nd</sup> April 2004

**Subject: Recommendations (Minutes) of the seventh meeting of the Building and Works Committee held on 26<sup>th</sup> March 2004.**

Enclosed herewith please find a copy of the recommendations (minutes) of the seventh meeting of the Building & Works Committee of this Institute held on 26<sup>th</sup> March 2004 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 &

Member-Secretary B&WC

To

1. Prof. Prem Vrat  
Director, IIT Roorkee  
(Chairman)
2. Er. S.P.Singh  
Chief Engineer,  
C.P.W.D.  
Kendriya Bhawan  
III Floor, Sector K, Aliganj  
Near Purana Chauraha  
Lucknow

3. Mr. P.K.Gupta  
Director  
Department of Secondary & Higher Education  
Govt. of India  
Ministry of Human Resource Development  
Shastri Bhawan  
New Delhi 110 001
  4. Mr. S.K.Grover  
Dy. Financial Advisor  
Govt. of India  
Ministry of Urban Development  
& Poverty Alleviation,  
New Delhi- 110 011
  5. Er. R.C.Mittal,  
The Chief Engineer  
Public Works Department  
Uttaranchal Govt.  
Dehradun (Uttaranchal)
  6. Er. J.M.Lal,  
Dy. G.M.,  
Uttaranchal Power Corporation Ltd.,  
Roorkee – 247 667
  7. Er. Salek Chand  
Institute Engineer  
IIT, Roorkee
  8. Prof. S.K.Kaushik  
Chairman, Estate & Works  
IIT Roorkee  
Permanent Invitee
  9. Prof. M.L.Kapoor  
Dy. Director  
IIT Roorkee  
Permanent Invitee
  10. Lt. Col. (Retd) A.K.Srivastava  
Registrar  
IIT Roorkee  
-Member Secretary
-

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



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**Minutes of the Seventh meeting of the Building and Works Committee held on 26<sup>th</sup> March 2004 at 11.30 A.M. 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. | Mr. P.K.Gupta, IAS, Director, MHRD, New Delhi | - Member            |
| 4. | Er. R.C.Mittal, Chief Engineer, PWD, Dehradun | - Member            |
| 5. | Er. J.M.Lal, Dy. G.M., UPCL, Roorkee          | - Member            |
| 6. | Er. Salek Chand, Institute Engineer           | - Member            |
| 7. | Prof. S.K.Kaushik, Chairman, E&W              | - Permanent Invitee |
| 8. | Prof. M.L.Kapoor, Dy. Director                | - Permanent Invitee |
| 9. | Lt. Col. (Retd) A.K.Srivastava, Registrar     | - Member Secretary  |

Mr. S.K.Grover, Dy. Financial Advisor, The Ministry of Urban Development & Poverty Alleviation, New Delhi had sent his apology for not attending the meeting.

The Chairman, Building & Works Committee welcomed the members to the Seventh Meeting. He expressed a warm welcome to the external members and expressed his gratitude for their guidance and contribution in the proceedings of the meetings.

Before taking up the agenda items, the Committee thanked Mr. Pawan Agarwal, IAS, Director, MHRD, outgoing member and recorded its appreciation for his valuable contribution in the meetings of the Committee. The Committee also welcomed Mr. P.K. Gupta, IAS, Director, MHRD and hoped for his valuable contribution and active participation in its functioning.

At the outset, the Chairman stated that there is a need to induct a member of the Board of Governors on the B&WC since the Board approves most of the recommendations of the B&WC. The B&WC approved the nomination of Prof. A.K. Jain, Department of Chemistry (member of Board of Governors) as a special invitee on the B&WC for the period upto 31.12.2005.

**Deliberations:**

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

**Item No. 7.1.0      Confirmation of the minutes of the Sixth Meeting of the Building and Works Committee held on 18<sup>th</sup> September 2003.**

Having received no comments on the minutes, the B&WC confirmed the minutes of the above meeting as recorded and circulated.

**Item No. 7.2.0      Action taken Report on the minutes of the Sixth Meeting of the Building and Works Committee held on 18<sup>th</sup> September 2003.**

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

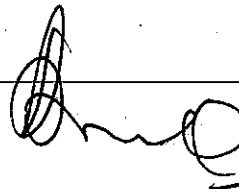
**Item No. 7.3.1      To consider the Administrative Approval and Expenditure Sanction to the Revised Estimate of Rs. 38,27,600.00 for Renovation of Senate Hall as submitted by C.P.W.D.**

The Committee decided that to meet out the excess expenditure of Rs.7,84,266/- for having provided pre-coated Steel Roof Sheets, Railing, Carpet etc., for renovation of the Senate Hall, the revised Estimate of Rs.38,27,600.00 (Appendix -'A') as submitted by C.P.W.D. be approved.

**Item No. 7.3.2      To consider the Administrative Approval and Expenditure Sanction to the Revised Preliminary Estimate of Rs. 3,39,51,500.00 for Construction of Guest House as submitted by C.P.W.D.**

The Committee decided that keeping in view the increase in plinth area from 2000 sqm to 3038 sqm as approved in the drawings and provision of Departmental Charges @ 7%, the revised preliminary estimate of Rs 3,39,51,500/- (Appendix- 'B') for construction of Guest House as submitted by C.P.W.D. be approved.

FURTHER THE COMMITTEE DECIDED THAT a request be sent to CPWD to waive the 7% Departmental charges





for all the works as a gesture of good will to this National Institution which is also the oldest Technical Institution in the Country.

**Item No. 7.3.3**

**To consider the Administrative Approval and Expenditure Sanction to the Revised Preliminary Estimate for Rs.4,56,31,500.00 for Construction of Faculty Lounge as submitted by C.P.W.D.**

The Committee decided that due to provisions of external development work, boundary wall (as per site requirement), richer specifications, and departmental charges @ 7%, the revised preliminary estimate of Rs. 4,56,31,500.00 (**Appendix – 'C'**) for construction of Faculty Lounge as submitted by C.P.W.D. be approved. The request for waiver of departmental charges be made to CPWD in this case also.

**Item No. 7.3.4**

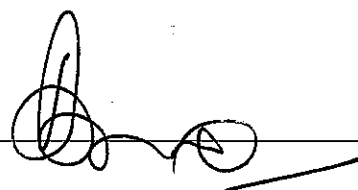
**To consider the proposal for proper distribution of additional load of 4000 KVA sanctioned by UPCL.**

At the outset, a detailed presentation of the proposal was made by the A.E.E.(E) before the Committee. After discussion the committee decided that the Preliminary Estimate amounting to Rs. 370.00 lacs (**Appendix – 'D'**) for proper distribution of additional load of 4000 KVA sanction by UPCL be approved.

**Item No. 7.3.5**

**To consider the proposal for construction of six suites for Visiting Faculty Guests near the New Guest House.**

The committee decided that the Preliminary Estimate amounting to Rs. 24.60 lacs for construction of six suites for Visiting Faculty in Residence No. 100, Vigyan Kunj be not approved at this moment. It may be reconsidered after the completion of VVIP Guest House.



**Item No. 7.3.6**

**To consider the proposal of Chief Engineer, C.P.W.D. to execute the Agreement with the Architects /Consultants.**

The Committee decided that Institute Engineer of the Institute be authorised to sign the Agreement with the Architects/Consultants on behalf of the I.I.T. Roorkee.

**Item No. 7.3.7**

**To consider the proposal to reserve one post of A.E. (Civil) to be filled from the existing J.Es. by promotion**

The Committee decided that the proposal to reserve one post of A.E. (Civil) against the posts approved by the Finance Committee chargeable to Works Estimates of the Division in the pay scale of Rs. 8,000-13,500 be filled by promotion on seniority basis, from internal candidates (J.E. Civil). The issue be placed before the BOG for approval.

**Item No. 7.3.8**

**To consider the proposal to upgrade one Post of J.E. (Elect.) to A.E. (Elect.), personal to the incumbent and to fill the same internally by promotion from the existing J.Es and to engage two J.Es (Elect.) on contract basis for a period of 03 years.**

The Committee decided that for the smooth functioning of the work of Electrical wing of the Institute, the under-mentioned proposal be approved:

- (a) One existing post of J.E. (Elect.) be upgraded to A.E. (Elect.) in the pay scale of Rs. 8000-13500, as personal to the incumbent.



02 APR 2004

- (b) Two J.E.s (Electrical) be engaged on contract basis for a period of 03 years at a fixed salary of Rs. 8,000/- p.m. The expenses on the same be charged to works.

The issue be placed before the BOG for approval.

**Item No. 7.3.9**      **To consider the Proposal to engage any architectural firm/architect for preparing the Master Plan/Architectural Drawings for development of the Greater Noida Land.**

The Committee decided that construction works at this site may be done by CPWD and Master Plan/ Architectural Drawings for the Greater Noida Land be prepared by the Architectural Wing of the CPWD.

**Item No. 7.3.10**      **To consider the proposal for inclusion of an eminent Architect on the B&WC**

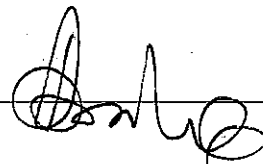
Ar. V.K.Mathur, Director, CBRI, Roorkee be nominated as a Special Invitee on the B&WC

**Item No. 7.3.11**      **Progress report of the on going/completed Major Works.**

The progress report of the on going/ completed Major works was noted with the remarks that the date of start of work, probable date of completion, physical, financial progress for on going works and actual date of completion including actual cost of the work for completed works, be also given in the progress report.

**Item No. 7.3.12**      **To consider the proposal for renovation of S.W.P. Hangar**

The Committee decided that the proposal for renovation of S.W.P. Hangar as submitted by the CPWD be accepted in principle. The CPWD be requested to submit the preliminary estimate for approval of FC/BOG.



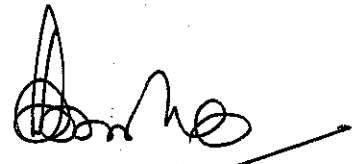
**UNDER ANY OTHER ITEM:**

**Item No. 7.3.13**

**(a) To consider the proposed Gateway opposite the "HARI DWAR" of BEG :** The proposal for a Gateway opposite the "HARI DWAR" be accepted in principle. Further, the proposed drawing of the Gate (**Appendix-E**) be circulated to the Campus Community and also put on the Internet for obtaining suggestions. The suggestions received, be placed in the next meeting of the B&WC for consideration.

**(b) Appointment of the Institute Engineer as Estate Officer under the Public Premises Act 1971:** Institute Engineer to take the necessary actions as Estate Officer on what ever is required under the Public Premises Act 1971.

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



02 APR 2004

**GOVERNMENT OF INDIA**  
**CENTRAL PUBLIC WORKS DEPARTMENT**

**Appendix-A**  
**Item No. 7.3.1**

State :- Uttranchal

Division :- R.C.D.

Branch :- B & R.

Estimate No. :- 42

Year 2003-04

Name of work :- Renovation of main building at I.I.T. Roorkee.  
SH :- Renovation of Senate Hall.

**FUNDS**

Major Head

Minor Head

Detailed Head

Estimate framed by Er. V.K. Asol, Executive Engineer, Roorkee Central Division, C.P.W.D., Roorkee and further processed by Er. Ravi Mathur, Executive Engineer (P & A), Dehradun Central Circle, C.P.W.D., Dehradun of the probable cost of Rs. 38,27,600/- including 5% contingencies.

**REPORT**

**History :-** This revised preliminary estimate amounting to Rs. 38,27,600/- including 5% contingencies has been framed to cover the revised cost of the above noted work for original estimate. The Administrative Approval and Expenditure Sanction was obtained for Rs. 39.20 lacs including electrical work vide letter No. BG/48/2002 (a) approved item 2.2.1.1 from I.I.T., Roorkee Out of this sanction an amount for civil work was provided 30.42 lacs. Now the estimate prepared for obtaining the revised A/A & E/S of the competent authority to meet out the excess amount (over original estimate) of Rs. 7,84,266/- for civil work only.

**Design and Scope :-** This estimate provides for the followings :-


The existing structure was about 156 years old having wooden false ceiling and with mosaic flooring. The work carried out as and where required renovation work in day to day consultant with I.I.T. authorities. Being very old structure original assessment was remain very under then the actual requirement. So this revision is felt necessary as per actual requirement at site. This estimate covered dismantling, wall paneling, woollen carpeting, false ceiling, wooden flooring, seating arrangement. Some additions etc.

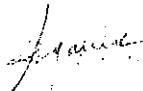
**Specifications :-** C.P.W.D. Specification 1996 Vol. I to VI with up to date correction slips shall be followed.


**Cost :-** Rs. 38,27,600/- including 5% contingencies.

**Rates :-** D.S.R. 1997 for items directly available in schedule enhanced by 1.39% for Cost Index and for items not available in D.S.R. 1997 has been taken on market rates.

Time :- Work completed.  
Land :- Available with the client department  
T & P :- Arranged by the agency.  
Method :- By contract after call of tenders.  
W.C. Estt.:- Met out from 5% contingencies.

  
Assistant Engineer (P)-I  
Dehradun Central Circle  
C.P.W.D., Dehradun.

  
Executive Engineer (P & A)  
Dehradun Central Circle  
C.P.W.D., Dehradun.


  
Superintending Engineer  
Dehradun Central Circle  
C.P.W.D., Dehradun.


Name of work :- Renovation of main building at I.I.T., Roorkee. SH :- Renovation of Senate Hall .

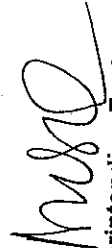
GENERAL ABSTRACT OF COST

Sl.No	Description	Original Estimate	Revised Estimate	Difference
1	ANNEXURE-A (BUILDING PORTION)	11,86,034.77	12,49,188.23	63,153.46
2	ANNEXURE- B (FALSE CEILING)	2,35,465.73	19,679.82	2,15,785.91
3	ANNEXURE-C (FURNISHING)	15,33,200.00	16,42,140.40	1,08,940.40
4	ANNEXURE-X ( EXTRA ITEMS)	--	7,34,332.00	7,34,332.00
	Total Rs.	29,54,700.50	36,45,340.45	6,90,639.95
	Add 3% contingencies	88,641.02	Add 5% contingencies 1,82,267.02	
		30,43,341.52	38,27,607.47	

Say Rs. 38,27,600.00

  
Assistant Engineer (P)-I  
Dehradun Central Circle  
C.P.W.D., Dehradun.

  
Executive Engineer (P & A)  
Dehradun Central Circle  
C.P.W.D., Dehradun.

  
Superintending Engineer  
Dehradun Central Circle  
C.P.W.D., Dehradun.

**GOVERNMENT OF INDIA**  
**CENTRAL PUBLIC WORKS DEPARTMENT**

**State:** Uttaranchal

**Division:** Roorkee Central Division **Branch:** B&R

**Name of work:** C/o V.I.P Guest House at IIT Roorkee.

**FUND:**

**Major Head:**

**Minor Head:**

**Detailed Head:**

**Deposit**

This revised preliminary estimate framed by Er. V.K. Asol, Executive Engineer, Roorkee Central Division, CPWD, Roorkee and processed by Er. Yamin Beg, Executive Engineer (P-I), the office of the Chief Engineer (NZ-II), CPWD, Lucknow for the probable cost of Rs. 3,39,51,500.00 i.e 3% contingencies 7% D.C.

**REPORT**

**History:**

This preliminary estimate amounting to Rs. 3,39,51,500.00 i.e 3% contingencies & 7% D.C. has been framed to cover the probable cost of the above mentioned work and for accord of revised A/A & E/S from the competent authority. Earlier the preliminary estimate was framed on the basis of tentative projections given by the IIT, Authorises without any architectural drawings for an estimated cost of Rs. 3,31,71,700.00 i.e internal furniture and furnishing. This estimate was modified by IIT at their level and sanction was conveyed for Rs. 235.00 Lacs only vide their letter No. Const/1734E dt. 13-01-2003 excluding the cost of internal furniture and furnishing.

At that time exact location of proposed work site was not known and as such cost of bulk services, internal W/S could not be ascertained and not included in old estimate.

After submission of previous estimate the Arch. Drawings and specification etc. have been prepared by the consultant as appointed by IIT. The architectural drawing and specification have been approved by the IIT.

This revised Preliminary Estimate has been framed on basis of the drawings and specifications finalized by the consultant and duly approved by the IIT. This estimate does not include the cost of internal furniture and furnishing and a separate estimate will be submitted further after the architectural drawings are approved by the IIT. However this revised Preliminary Estimate includes the cost of compound wall to be erected around the V.I.P Guest House.

The increase in cost is mainly due to increase in plinth area, provision of under specification and development work e.g. bulk services, W/S and compound wall retaining wall etc.

**Design and scope:** 1- This estimate has been prepared on the basis of Architectural Drawings prepared by the consultant and duly approved by client. Guest House comprises of 10 Nos. double room and 20 Nos. single room suits. As per meeting held on 03-02-2003 at Roorkee and as per the minutes of meeting issued on 07-02-2003, the requirement was modified. Accordingly the revised drawing were prepared and approved by the IIT. The plinth area of the buildings has been increased from 2000 sqm to 3078 sqm. Area of 2000 sqm was considered in original preliminary estimate.

2- Following provision have also been made in this estimate

- i) Partly load bearing and partly framed structure designed for earthquake resistance.
- ii) Provision for fire fighting, internal water supply, internal electrical installation i.e copper wiring, wiring, power points.
- iii) Some of the provision were not considered in previous estimate. However Extra provisions have been made in this estimate for foundation and



- staircase entrance hall and superior finish tile like marble etc. in the  
 dado of toilets and dressing space. A further provision of POP on smooth  
 textured painting, glass walls, stainless steel push fitting for A.C. doors  
 doors have also been taken in this revision.
- iv) Provision of A.C. has been made in each room with gear on ceiling  
 attached to the suns.
  - v) Provision has also been made for development work of bulk supplies  
 boundary wall including retaining wall and septic tanks and other group  
 well and horticulture works.

**Specification:** The work shall be carried out as per CPWD specification 1990 Vol. 1 to Vol. 4  
 with upto date correction slips and/or manufacturing requirement.

**Foundation :** Fully isolated RCC footings and partly load bearing spread footing brick  
 masonry foundation laid over lean cement concrete.

**Superstructure :** RCC beams column and slabs, 23 cm thick brick masonry filler walls where  
 required.

**Flooring:** Ordinary flooring in carpet area and marble flooring in non carpeted area.  
 Superior quality tiles e.g. marbanite flooring and dado of toilets.

**Doors/Windows:** Decorative finish flush door shutters and aluminum section windows with  
 grills in the windows with external doors & windows having wire gauge  
 shutters.

**Finishing:** All inner wall shall be plastered with cement mortar and finished with  
 superior quality paint (Plastic Emulsion). External portion shall be finished  
 with Distrusted clay ceramic tiles (glazed) 10 mm thick as per the  
 specification decided by architect and approved by the client.

**Rates:** Plinth area rates 01-01-1992 with 46% cost index and prevailing market rates.

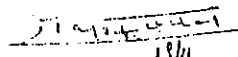
**Cost:** Rs. 3,39,57,500.00 i/c 3% contingencies and DC @ 7%.

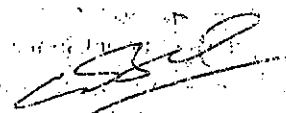
**Method:** By contract after call of tender.


**T & P :** No special T&P required. All necessary V&P shall be arranged by the contractor at  
 his own cost.

**Land :** Available with client department in IIT Roorkee.

**Time :** 18 months after receipt of sanction.

  
 18/11  
 ASST. ENGINEER(P) III  
 NZ II CPWD LUCKNOW

  
 EXECUTIVE ENGINEER(P) III  
 NZ II CPWD LUCKNOW

  
 SUPERINTENDING ENGINEER(P)  
 NZ II CPWD LUCKNOW

# GENERAL ABSTRACT

NAME OF WORK: C/O FACULTY LOUNGE AT I.I.T. ROORKEE

Sl. No.	Description of Work	Original Estimate		Revised Estimate		
		Civil	Electrical	Civil	Electrical	Total
1.	Building Portion	18360103.00	3315081.00	21675187.00	4577574.00	26270520.00
2.	Development Work		102200.00	102200.00	465002.00	3228620.00
3.	Bulk Services		515000.00	515000.00	515000.00	515000.00
4.	Boundary wall including retaining wall			1716021.00		1716021.00
	Total	18360103.00	3932281.00	22292387.00	5557576.00	31730161.00

Add Departmental Charges 7%

2221111.00

Total

33951272.00

Say Rs. 3,39,51,500.00

S.d./  
A.E. (P)  
C.P.W.D., Lucknow

S.d./  
E.E. (P)III  
C.P.W.D., Lucknow

S.d./  
S.E. (P)  
C.P.W.D., Lucknow

S.d./  
Chief Engineer (NZ-II)  
C.P.W.D., Lucknow

**Name of the work: C/o V.I.P. Guest house at IIT Roorkee.**

The reasons for deviations in the cost of work has already been mentioned in the history sheet of the revised estimate as submitted vide Chief Engineer (NZ-II), CPWD, Lucknow office letter even no. 11929-33 dated 24.11.2003. Some main reasons are reiterated below for ready reference.

Sl. No	Description of items	Original provisions	Revised provisions	Remarks
1.	Plinth Area	2000 Sqm	3038 Sqm	Increase in plinth area.
2.	Development work	----NIL----	As per actual plot Area-9100 Sqm	No provision taken in original estimate.
3.	Boundary wall proposed	----NIL----	As per requirement of site	----do----
4.	Departmental charges	----NIL----	@7%	----do----

**Remarks :** The revised estimate does not include any provisions for internal furniture & furnishing .

  
Executive Engineer  
Roorkee Central Division,  
CPWD, Roorkee

No: DB(3)/RCD/G.H./ 360

Date : 16/3/2004

To,

Institute Engineer  
I.I.T., Roorkee

# CENTRAL PUBLIC WORKS DEPARTMENT

Paranchal

Division: Roorkee Central Division Branch: B&R

**Appendix-C**  
**Item No. 7.3.3**

of work: C/o Faculty Lounge at I.I.T., Roorkee.

ND: }  
Major Head: } Deposit  
Minor Head: }  
Detailed Head: }

This revised preliminary estimate framed by Er. V.K. Asol, Executive Engineer, Roorkee Central Division, CPWD, Roorkee and processed by Er. Yamin Beg, Executive Engineer(P)-III, the office of the Chief Engineer(NZ-II), CPWD, Lucknow for the probable cost of Rs. 4,56,31,500.00 i/c 3% contingencies 7% D.C.

## REPORT

**History:** This revised preliminary estimate amounting to Rs. 4,56,31,500.00 i/c 3% contingencies & 7% DC has been framed to cover the probable cost of the above mentioned work and for accord of revised A/A & E/S from the competent authority. Earlier the preliminary estimate was framed on the basis of tentative projections given by the IIT, Authorities, without any architectural drawings for an estimated cost of Rs. 4,05,44,600.00. This estimate was modified by IIT at their level and sanction was conveyed for Rs. 348.00 Lacs only vide their letter No. Const/173/IE dt. 13-01-2003.

At that time exact location of proposed work site was not known, and as such cost of development work, was tentatively considered in old estimate.

After submission of previous estimate the Architectural Drawings and specification etc. have been prepared by the consultant appointed by IIT. The architectural drawing and specification have been approved by the IIT. -

This revised Preliminary Estimate has been framed on basis of the drawings and specifications finalized by the consultant and duly approved by the IIT, Roorkee. The revised preliminary estimate include the cost compound wall to be created around the Faculty Club.

The increase in cost is mainly due to provision of richer specification and development work e.g. bulk services, W/S and compound wall, retaining wall 7% DC etc.

**Design and scope:** 1- The IIT Roorkee has appointed consultant for design of Architectural, structural and other services of the building. The consultant has prepared the Architectural plans and schedule of quantities of the building. Accordingly the following provisions as per drawings have been made in the revised estimate:-

- i) Partly RCC framed and partly load bearing structural duly designed for earthquake resistance.
- ii) Extra Provision for additional height beyond normal and for larger modules have been made.
- iii) Extra provisions for fire fighting, marble flooring in entrance passage pantry of club, polished Kota stone floorings in community center and ceramic tile flooring & Dado in toilets have been made.
- iv) Extra provision for superior external finish as decided by Architect and approved by IIT, authorities have been made.
- v) Provision for development work as leveling internal roads and path sewer and water supply lines have been made.


- vi) Provision for internal electrical installation, wiring for telephone, T.V. power point, approach and Garden light windows type AC, Geysers, have also been made.
- vii) Provision for POP, Textured paint finish, glass walls, stainless steel patch fittings also included.


The estimate does not include the cost of furniture & furnishing for which the drawings are being prepared by the consultant. A separate estimate will be sent for the same.

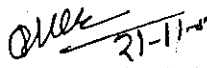
**Specification:** The work shall be carried out as per CPWD specification 1996 Vol. I to Vol. VI with upto date correction slips and/or manufactures requirement. The brief specification are as follows:-

- Foundation :** Partly RCC framed structural with isolated footings and partly load bearing brick masonry spread footing foundation laid over lean cement concrete.
- Superstructure :** RCC beams, column and slabs, 23 cm thick brick masonry filler walls where required.
- Flooring:** Marble flooring in guest house, faculty lounge and polished Kota stone flooring in community halls. Ceramic tiles in flooring and Dado of toilets.
- Doors/Windows:** Decorative finish flush door shutters and aluminum section windows with grills in the windows with external doors & windows having wire gauge shutters.
- Finishing:** All internal portion of walls shall be plastered with cement mortar and finished with superior quality acrylic emulsion paint.
- External portion:** External finish shall be with extruded clay ceramic tiles (unglazed) 10 mm thick as proposed by Architect cum Consultant.

- Rates:** Plinth area rates 01-01-1992 with 46% cost index .
- Cost:** Rs. 4,56,31,500.00 i/c 3% contingencies and DC @ 7%
- Method:** By contract after call of tender.
- T & P :** Shall be arranged by the contractor.
- Land :** Available.
- Time :** months after receipt of sanction

  
ASST. ENGINEER(P) III  
NZ II CPWD LUCKNOW

  
EXECUTIVE ENGINEER(P) III  
NZ II CPWD LUCKNOW

  
SUPERINTENDING ENGINEER(P)  
NZ II CPWD LUCKNOW

# General Abstract


Name of Work: C/o Faculty Lounge at IIT, Roorkee


Sl. No.	Description of Work	Original Estimate		Revised Estimate	
		Civil	Electrical	Civil	Electrical
1	Building Portion	27704039.00	4249555.00	31084923.00	3688456.00
2	Development Work	1423272.00		3047205.00	
3	Bulk Services		1421400.00		1421400.00
4	Boundary wall including retaining wall			3404000.00	
Total		29127311.00	5674955.00	37536128.00	5109856.00


Add Departmental Charges 7%


2985219.00  
Total 45631203.00

Say Rs. 4,56,31,500.00

  
A.E.(P) 1914  
C.P.W.D., Lucknow

  
E.E.(P)-III  
C.P.W.D., Lucknow

  
S.E.(P)  
C.P.W.D., Lucknow

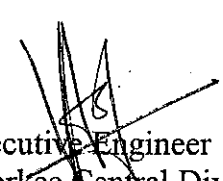
  
Chief Engineer (A-Z-ID)  
C.P.W.D., Lucknow

**Name of the work:** C/o Faculty lounge at IIT Roorkee.

The reasons for deviations in the cost of work has already been mentioned in the history sheet of the revised estimate as submitted vide Chief Engineer (NZ-II), CPWD, Lucknow office letter even no. 11924-28 dated 24.11.2003. Some main reasons are reiterated below for ready reference.

Sl. No	Description of items	Original provisions	Revised provisions	Remarks
1.	Plinth area of building	3500 Sqm	3500 Sqm	No change
2.	Internal W/S & S/I of	----NIL----	@15%	No provision taken in original estimate.
3.	External development work	Tentative projection	As per site requirement	—
4.	Richer specification	----NIL----	As per appd. Arch. Drg.	No provision taken in original estimate.
5.	Boundary wall	----NIL----	As per actual site requirement	---do---
6.	Departmental charges	----NIL----	@7%	----do---

**Remarks :** The revised estimate does not include any provisions for internal Furniture & furnishing.

  
Executive Engineer  
Roorkee Central Division,  
CPWD, Roorkee

No: DB(7)/RCD/F.H./ 359

Date : 16/3/04

To,

Institute Engineer  
I.I.T., Roorkee





**Appendix-D**  
**Item No. 7.3.4**

**A. PRELIMINARY ESTIMATE FOR PROPER DISTRIBUTION OF ADDITIONAL LOAD 4000 KVA, ENHANCING THE CAPACITY OF EXISTING SUBSTATIONS AND CONSTRUCTION OF NEW SUBSTATIONS**

Sl. No.	Description of Item	Quantity	Rate	Unit	Amount
1.	SITC of 11 KV /433 volt 3 phase, 50 Hz, Oil type transformer a. 800 KVA rating b. 630 KVA rating c. 500 KVA rating	3 nos. 5 nos. 2 nos.	5.26 lacs 4.73 lacs 4.06 lacs	Each Each Each	15.78 lacs 23.65 lacs 8.12 lacs
2.	SITC of extensible local t/f control RMU having a. 5 function b. 4 function c. 3 function	2 nos. 6 nos. 1 nos.	13.62 lacs 10.83 lacs 7.35 lacs	Each Each Each	27.24 lacs 64.98 lacs 7.35 lacs
3.	Supply and laying of HT, 11 KV, XPLE, 3 x 185 sq mm cable	5300 mt.	0.01 lacs	Per mt.	53.00 lacs
4.	Supply and fixing cable jointing kits	69 nos.	0.07 lacs	Each	4.83 lacs
5.	Earthing with copper earth plate	36 nos.	0.08 lacs	Each	2.88 lacs
6.	G.I. Earthing	58 nos.	0.02 lacs	Each	1.16 lacs
7.	Building Cost	450 sq. mt.	0.04 lacs	Per sq. mt.	18.00 lacs
8.	SITC of LT ACB a. 1600 amp b. 1000 amp c. 800 amp d. 630 amp	6 nos. 12 nos. 6 nos. 2 nos.	1.46 lacs 1.20 lacs 1.14 lacs 0.45 lacs	Each Each Each Each	8.76 lacs 14.40 lacs 6.84 lacs 0.90 lacs
9.	SITC of LT MCCB 400 amp	30 nos.	0.23 lacs	Per job	6.9 lacs
10.	SITC of LT Panels	50 cub. mt.	0.20 lacs	Per cub mt	10.00 lacs
11.	SITC of Capacitors bank in KVAR	785 KVAR	0.014 lacs	Per KVAR	11.00 lacs

12.	Supplying and laying of LT Cables a. 3 x ½, 300 sq mm b. 3 x ½, 240 sq mm c. 3 x ½, 185 sq mm d. 3 x ½, 120 sq mm e. 3 x ½, 95 sq mm f. 3 x ½, 70 sq mm	3200 mt. 6200 mt. 400 mt. 300 mt. 200 mt. 300 mt.	0.008 lacs 0.00675 lacs 0.0053 lacs 0.0038 lacs 0.0032 lacs 0.0026 lacs	Per mt. Per mt. Per mt. Per mt. Per mt. Per mt.	25.60 lacs 41.85 lacs 2.12 lacs 1.14 lacs 0.64 lacs 0.78 lacs
13.	SITC of LT feeder pillars	16 nos.	0.10 lacs	Per job	1.6 lacs
14.	Misc. items like GI pipe, jointing kits.	9 jobs	0.5 lacs	LS	4.5 lacs
15.	Safety materials and tool & plants	9 jobs	0.75 lacs	LS	6.75 lacs
				<b>Total Cost</b>	<b>370.77 lacs</b>

**Say Rs. 370.00 lacs**

