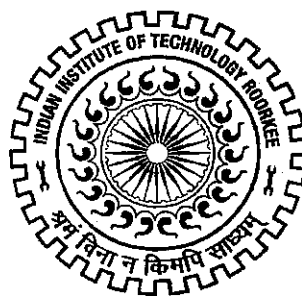


न एवं निर्माण कार्य समिति की चौदहवीं बैठक
(अत्यावश्यक बैठक) का कार्यवृत्त
MINUTES OF THE 14th MEETING (URGENT MEETING)
OF THE BUILDING & WORKS COMMITTEE

(22.08.2006)



भारतीय प्रौद्योगिकी संस्थान रुड़की
रुड़की – 247 667 (भारत)

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



भारतीय प्रौद्योगिकी संस्थान रुड़की

रुड़की - 247 667, उत्तरांचल, भारत

INDIAN INSTITUTE OF TECHNOLOGY ROORKEE

ROORKEE - 247 667, UTTARANCHAL, INDIA

Fax : (91) 1332 - 285310, 273560

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

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

Lt Col A K Srivastava (Retd)
Registrar

No. IITR/MS/14th B&WC/(08/2006) / 818
Dated 26th August 2006

Subject: Recommendations (Minutes) of the 14th meeting (urgent meeting) of the Building and Works Committee held on 22nd August 2006.

Enclosed herewith please find a copy of the recommendations (minutes) of the 14th meeting (urgent meeting) of the Building & Works Committee of this Institute held on 22nd August 2006 for favour of information of the members and record. Members who attended the meeting are requested to kindly offer their comments, if any, within 15 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

To,

1. Prof. S. C. Saxena
Director,
Indian Institute of Technology Roorkee
(Chairman)
2. Prof. H.K.Verma
Dy. Director
Indian Institute of Technology Roorkee
3. Prof. V.K. Gupta
Chairman, Estate & Works
Indian Institute of Technology Roorkee

4. Mrs. Irina Garg
Director (T)
Department of Secondary & Higher Education
Govt. of India
Ministry of Human Resource Development
Shastri Bhawan
New Delhi 110 001
5. Er. O.P.Bhatia
Chief Engineer,
C.P.W.D., Kendriya Bhawan
III Floor, Sector K, Aliganj
Near Purana Chauraha
Lucknow (U.P.)
6. Er. Naresh Kumar,
Dy. G. M.,
Uttaranchal Power Corporation Ltd.,
Roorkee - 247 667
7. Prof. S.C.Jain
Department of Mechanical & Indl. Engg.
Indian Institute of Technology Roorkee
8. Prof. H.O.Gupta
Department of Electrical Engineering
Indian Institute of Technology Roorkee
9. Prof. N.M. Bhandari
Department of Civil Engineering
Indian Institute of Technology Roorkee
10. Er. Salek Chand
Institute Engineer
Indian Institute of Technology Roorkee
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

AN INSTITUTE OF TECHNOLOGY ROORKEE
ROORKEE 247 667



Minutes of the 14th Meeting (Urgent Meeting) of the Building & Works Committee held on 22.8.2006 at 12.00 Noon in the Committee Room.

INDEX

Item No.	Particulars	Page(s)
14.1	To consider the further course of action for the construction of New Boys Hostel.	2
14.2	To consider the Preliminary estimates for extension of the Ganga Bhawan, Govind Bhawan, Jawahar Bhawan and Ravindra Bhawan.	3
14.3	To consider the preliminary estimate amounting to Rs. 263.33 lacs for upgradation of the Convocation Hall.	4
App. 'A'	Preliminary estimate of Rs. 21,84,24,000.00 of CPWD for construction of New Boys' Hostel with a capacity of around 700 to 750 rooms.	5-13
App. 'B'	Preliminary estimate amounting to Rs. 263.33 lacs for upgradation of the Convocation Hall.	14

MEETING SECTION
INDIAN INSTITUTE OF TECHNOLOGY, ROORKEE
ROORKEE - 247 667

Minutes of the 14th Meeting (urgent Meeting) of the Building & Works Committee held on 22nd August 2006 at 12.00 Noon in the Committee Room of the Institute.

The following were present:

- | | |
|--|--------------------|
| 1. Prof. S.C. Saxena, Director | - Chairman |
| 2. Prof. H.K. Verma, Dy. Director | - Member |
| 3. Prof. V.K. Gupta, Chairman, E&W | - Member |
| 4. Er. O.P. Bhatia, Chief Engineer, CPWD, Lucknow | - Member |
| 5. Prof. S.C. Jain, Mechanical & Indl. Engineering Deptt. | - Member |
| 6. Prof. H.O. Gupta, Department of Electrical Engg. | - Member |
| 7. Er. Salek Chand, Institute Engineer | - Member |
| 8. Prof. S.P. Gupta, Prof.-in-Charge Planning
& Nodal Officer, MHRD, IITR | - Special Invitee |
| 9. Lt. Col. (Retd.) A.K. Srivastava, Registrar | - Member Secretary |

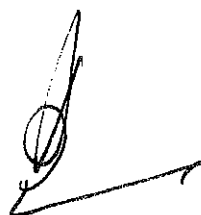
Communication were received from the following members for not attending the meeting:

1. Mrs. Irina Garg, Director (T), MHRD, New Delhi
2. Prof. N.M. Bhandari, Department of Civil Engineering

The Chairman, Building & Works Committee (B&WC), welcomed the members to the urgent Meeting. He extended a warm welcome to the external member Er. O.P. Bhatia, Chief Engineer, North Zone - II, CPWD, Lucknow.

Before taking up the agenda items, the Committee thanked Prof. S.C. Solanki, Department of Mechanical & Industrial Engineering, outgoing member and recorded its appreciation for his valuable contribution in the meetings of the Committee.

The Building and Works Committee also extended a hearty welcome to the new member Prof. S.C. Jain, Department of Mechanical and Industrial Engineering and solicited his valuable contribution and active participation in its functioning.



26 AUG 2006

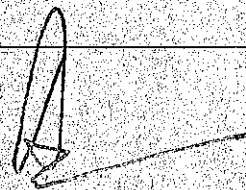
Deliberations:

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

Item No. 14.1 To consider the further course of action for the construction of New Boys Hostel.

The B&WC evaluated the proposals submitted by the U.P. Rajkiya Nirman Nigam and the CPWD and recommended that the work for construction of a New Boys' Hostel with a capacity of around 700 to 750 rooms be awarded to the CPWD at a cost of Rs. 21,84,24,000.00 with the following conditions:

1. The Chief Engineer, North Zone II, C.P.W.D. Lucknow should write to the Director General of Works, C.P.W.D., that any penalty that is imposed by the Department on the Contractor for delay in completion of the project, if any, should be reduced from the over all cost of the project, and should not be credited to the revenues of the Department, so that the IIT Roorkee gets the benefit of cost reduction.
2. The Chief Engineer, North Zone II, C.P.W.D. Lucknow be informed that the Ground Floor + two storeys, including the Students' Mess (Dining Hall and Kitchen), and atleast 250 rooms should be completed in Phase-I, and handed over to the Institute by 30 June 2007. A joint Monitoring Committee of IIT Roorkee and CPWD will monitor the project at least once a month.
3. Phase-II of the hostel, i.e. the remaining 450 rooms and other E/M and B/R services + horticulture, internal roads and paths and storm water drains and rain water harvesting, be completed by 30th June 2008. However, essential services such as internal water supply and sanitary installations, external service connections, sewer/septic tank, Fire Fighting Services/Smoke detector and the internal electrical work for 250 rooms, the Kitchen and Dining Hall and the required electrical service



21 AUG 2005

connections, plus telephone/ internet cabling in the common room and the individual rooms will be completed by 30th June 2007. Internal TV cabling will be provided as per requirement.

4. Only OTIS elevators having a capacity of 16 persons will be provided in the proposed boys hostel. All other bulk services for civil and electrical work, which are required for Phase-I will be completed by 30th June 2007.

With the above conditions, the preliminary estimate submitted by the C.P.W.D., which is given at **Appendix 'A'** was accepted and it was decided that the issue of construction of a New Boys' Hostel with a capacity of around 700 to 750 rooms, be placed before the Finance Committee and the Board of Governors for according administrative approval and expenditure sanction.


UNDER ANY OTHER ITEMS:

Item No. 14.2 To consider the Preliminary estimates for extension of the under-mentioned existing hostels:

(a)	Govind Bhawan	45 Rooms single seated	Rs. 68.00 lacs
(b)	Ganga Bhawan	150 Rooms single seated 33 Rooms Double seated	Rs.330.00 lacs
(c)	Jawahar Bhawan	111 Rooms Single seated	Rs.187.00 lacs
(d)	Ravindra Bhawan	69 Rooms Single seated	Rs.108.00 lacs

After discussion, the B&WC decided that the proposal for extension of the above mentioned hostels be accepted. The estimates of the hostels be prepared by the Chairman, E&W/CPWD/UP Rajkiya Nirman Nigam, and placed before the Building and Works Committee.

Note: In order to make the hostel functional for occupancy by the students in June/July 2007, timely necessary action to furnish the hostel


26 AUG 2006

rooms, the common facilities like the Mess, the common room, the Offices of the Chief Warden and the Caretaker, should be taken by the Chairman, E&W and the Institute Engineer.

Item No. 14.3 To consider the preliminary estimate amounting to Rs. 263.33 lacs for upgradation of the Convocation Hall.

The Building & Works Committee considered the preliminary estimate of Rs. 263.33 lacs (**Appendix 'B'**), for retrofitting, up-gradation, landscaping and external development and Air Cooling of the Convocation Hall, which was prepared on the basis of the rates submitted by the Consultants for retrofitting, upgradation and Air Cooling [M/s Llyod Insulation (India) Limited; M/s Jaiprakash Associates; and M/s Enersave Consultants respectively), for the above mentioned works. The details of the same are given below :

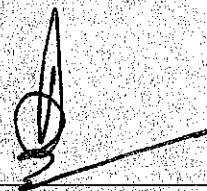
(a)	Retrofitting	:	Rs. 28.08 lacs
(b)	Upgradation	:	Rs. 133.58 lacs
(c)	Landscaping & external development :		Rs. 4.00 lacs
(d)	Air Cooling	:	Rs. 90.00 lacs

Total			Rs. 255.66 lacs
Add 3% contingencies			Rs. 7.67 lacs

Grand total			Rs. 263.33 lacs

The Building & Works Committee accepted the estimate and recommended that the same be placed before the Finance Committee and the Board of Governors for according administrative approval and expenditure sanction for the above work.

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





सत्यमेव जयते

भारत सरकार

GOVERNMENT OF INDIA

मुख्य अभियन्ता (उ०अं०-॥)

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 700 capacity 8 storied Boys Hostel
for I.I.T. at Roorkee

अनुमानित लागत

ESTIMATED COST

Total Rs. 21,84,24,000.00

100-100000

100-100000

100-100000

100-100000

100-100000

100-100000

100-100000

100-100000

100-100000

100-100000

100-100000

100-100000

2/9

GOVERNMENT OF INDIA
CENTRAL PUBLIC WORKS DEPARTMENT

State :- Uttaranchal

Division :- R.C.D.

Branch :- B & R.

Estimate No. of 2006-07

Name of work :- Construction of 700 capacity 8 storied Boys Hostel for I.I.T. at Roorkee.

FUNDS

Major Head

Minor Head

Detailed Head

Estimate framed by Er. V.K. Asol, Executive Engineer, Roorkee Central Division, C.P.W.D., Roorkee, processed by Er. G.S. Bisht, Executive Engineer (P & A), Dehradun Central Circle, C.P.W.D., Dehradun and further processed by Er. Manu Amitabh, EE(P-II), in office of CE(NZ-II), CPWD, Lucknow of the probable cost of Rs. 21,84,24,000/- including 3% contingencies.

REPORT

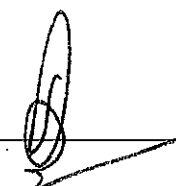
History :- This preliminary estimate amounting to Rs. 21,84,24,000/- including contingencies has been framed to cover the probable cost of the above mentioned work and for obtaining Administrative Approval and Expenditure Sanction of the competent authority

Initially as per requisition of Institute Engineer vide letter No. E & W/281/IE dated 01.06.2005 preliminary estimate for 400 seats boys hostel was submitted for Rs. 8,35,66,000/- and was approved by Board of Governors vide meeting held on 30.07.2005. But this work was kept pending as the site of construction was not finalized by the client. In the meeting of Building and Work Committee held on 30.04.2006 it was decided by the client to modify the Preliminary estimate for 375 seats. Now as per Institute Engineer's letter No. vide No. स० एवम् का०/357/संस्थान अमि० दिनांक 04-08-2006 this estimate has been prepared for 700 capacity.

Design and Scope :- The building will be 8 storeyed RCC framed structure with floor height of 3.05 mtr and filler wall 230/115mm thick. Due to shortage of time, preliminary drawings for the proposed 700 students hostel could not be developed. The preliminary estimate has been prepared based on the plinth area of 374 capacity hostel on the basis of drawing submitted to IIT on 24/07/2006 proportionately increased for 700 boys plus 5% area extra for lift block and fire escape etc. This hostel will have 700 rooms, kitchen, & dining hall, TV cum reading room, T.T. room, Cyber Café room etc.. Total plinth area for the proposed 700 students hostel building is 18896 sqm. Area of the plot of land available being 5000 sqm (approx.), the proposed construction would lead to excessive F.A.R. and congestion of the area.

Soil bearing capacity has been assumed as 10 M.T/Sqm similar to 28 Nos. Multistoried flats as reported by the Executive Engineer, Dehradun. Actual soil testing however would be got done before designing of the foundations of the building. The building is to be designed for Seismic Zone-IV.

Specifications :- The work shall be carried out as per C.P.W.D. Specification 1996 Vol. I to VI with up to date correction slips and modified specifications 2002 for cement concrete and R.C.C. shall be applicable.


26 AUG 2006

3/9

Brief Specifications and Provisions :-

1. **Foundation & Superstructure :-** Eight storeyed R.C.C. framed structure with R.C.C. raft foundation at a depth of 2.50 metre below ground level. Design mix of grade M-25 with filler wall 230mm thick of brick work with bricks of class designation 75 in cement mortar 1:6 (1 cement : 6 coarse sand) and partition wall 115mm thick in cement mortar 1:4 (1 cement : 4 coarse sand)
2. **Doors and Windows frames :-**
 - (i) **Window frame :-** Pressed steel frames made out of corrosion resistant coated 1.6mm thick sheet with double rebate.
 - (ii) **Door frame :-** Pressed steel frames made out of corrosion resistant coated 1.6mm thick sheet with single rebate for internal door and double rebate for external door, M.S. T-iron frame for cupboard and mummy door.
3. **Door shutters & fittings :-** All door shutters shall be 35mm thick flush door shutter, 30mm thick flush door with T-iron frame for W.C. and bath, 25mm thick flush door commercial shutter for cupboards with T-iron frame, aluminium door fittings and powder coated M.S. window fittings
4. **Windows/ventilator Shutters :-** M.S. tubular box section corrosion resistant coated glazed shutter and M.S. grill with M.S. fittings
5. **Flooring :-** Marble chips flooring/precast terrazzo tiles and skirting with ordinary cement in all rooms. In remaining areas including toilet, circulation area, dining, kitchen, T.T. room, T.V. lounge etc. kota stone flooring shall be provided. Ceramic glazed tiles dado in W.C. and bathroom shall be provided.
6. **External finishing :-** Exterior Weather coat (Snowcyl) paint over cement plaster.
7. **Internal finishing :-** Cement plaster, oil bound washable distemper in all areas except kitchen, W.C. and bath and all ceiling which shall be done with white wash. Synthetic enamel paint on wood work and steel work.
8. **Sanitary Fittings :** Standard C.P. brass Fittings.
9. **Misc. Building Works** Provision of Plinth Protection, brick edging and CC 1:2:4 pavement. Granite slab fascia in lift block.
10. **Electrical Works :** Provisions have been kept for internal electrical installations with copper wiring, power plugs, telephone and internal conduiting etc.
11. **Development Works (Civil) :** Provision has been kept for internal roads and paths, sewer/ septic tanks, horticulture development and rainwater harvesting.
12. **Development Works (Electrical) :** Provision has been kept for Street / Compound lighting.
13. **Bulk Services (Civil) :** Provision has been kept for OHT on terrace, Under ground Tank.
14. **Bulk Services (Electrical) :** Provision has been kept for 4 nos. Lifts, D.G set (125 KVA), pumps, power cabling, Electrical Panels, and Manual Fire Alarm.

Cost :-

Rs. 21,84,24,000/- including 3% contingencies

Rates :-

P.A.R. 1992 enhanced by approved Cost Index @ 130% for Roorkee.

Time :-

(i) Pre construction stage 6 Months after receipt of A/A and E/S

(ii) Construction stage 18 Months after availability of land free from all encumbrances or receipt of funds whichever is later.

Land :-

Available with client department



26 AUG 2005

4/9

T & P :-
Method :-
W.C. Estt. :-

No special T & P is required. Shall be arranged by the contractor at his own cost.
By contract after call of tenders
Will be met out from 3% contingencies.

Asstt. Engineer (P)
NZ-II, CPWD, Lucknow

18/8/06
Exec. Engineer (P)-II
NZ-II, CPWD, Lucknow

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

26 AUG 2006

GENERAL ABSTRACT

59

Name of Work:- Construction of 700 Nos. Boys Hostel (8 Stories) at IIT, Roorkee

Sl. No.	Description of items	Civil Work	Elect. Work	Total
1	Building Portion	172703870.00	25698024.00	198401894.00
2	Development Work	1497600.00	500000.00	1997600.00
3	Bulk Services	1282500.00	10380000.00	11662500.00
Total		175483970.00	36578024.00	212061994.00
Add 3% contingencies				6361860.00
		Total		218423854.00

Say Rs. 218424000.00

A.E.(P)
CPWD, Lucknow

18/08/06
E.E.(P)-II
CPWD, Lucknow

18/08/06
S.E.(P)
CPWD, Lucknow

18/08/06
Chief Engineer (N.Z.-II)
CPWD, Lucknow

26 AUG 2006

Name of Work:- Construction of 700 Nos. Boys Hostel (8 Stories) at IIT, Roorkee

6/9


Sl. No.	Description of Items	Quantity	Rate	Unit	Amount
Building Work					
1	RCC framed structure upto six storeys Floor height 2.90 mtrs	18896.00 sqm	2740.00	sqm	51775040.00 A
2	Add for revised specifications	18896.00 sqm	346.00	sqm	6538016.00
3	Extra for:				
a	Every 0.3 mtr. additional height of floor above normal floor height of 2.90 mtr. Upto 3.05 mtr. (0.15/0.30)x125	18896.00 sqm	62.50	sqm	1181000.00
b	Every additional storeys over six storeys upto nine storeys	18896.00 sqm	100.00	sqm	1889600.00
c	Every 0.30 mtr. Deeper foundation over normal depth of 1.20 mtr.	2988.00 sqm	135.42	sqm	404635.00
d	Resisting earth quake force	18896.00 sqm	250.00	sqm	4724000.00
e	RCC raft foundation	2988.00 sqm	440.00	sqm	1314720.00
f	Larger modules over 35 sqm	648.00 sqm	220.00	sqm	142560.00
				Total	67969571.00
Services (Civil)					
4	Internal water supply & sanitary installation	51775040.00 %	10.00%	%	5177504.00
5	External service connections	51775040.00 %	3.75%	%	1941564.00
				Total	75088639.00
	Add cost index @130% for Roorkee				97615231.00
				Total	172703870.00
Internal Electrical Work					
a	Internal electrical installation & fans	51775040.00 %	12.5%	%	6471880.00
b	Extra for FRLS copper wiring	51775040.00 %	2.5%	%	1294376.00
c	Extra for power wiring & plug	51775040.00 %	4.0%	%	2071002.00
d	Extra for lighting conductor	51775040.00 %	0.33%	%	170858.00
e	Extra for Telephone/Internet conduiting	51775040.00 %	1%	%	517750.00
f	Service connection	51775040.00 %	1.25%	%	647188.00
				Total	11173054.00
	Add cost index @130% for Roorkee				14524970.00
				Total	25698024.00

26 AUG 2006

7/9

Name of Work:- Construction of 700 Nos. Boys Hostel (8 Stories) at IIT, Roorkee

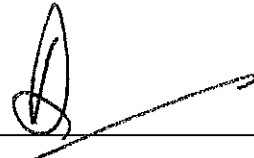
Sl. No.	Description of Items	Quantity	Rate	Unit	Amount
Development of Site (Civil Work)					
1	Internal Roads & Paths and SW drains		LS		300000.00
2	Sewer /septic tank		LS		500000.00
3	Horticulture operations		LS		100000.00
4	Rainwater harvesting	2988.00 sqm	200.00	sqm	597600.00
Total					<u>1497600.00</u>
Development of Site (Electrical Work)					
1	Street/Compound lighting with SV fitting	50.00 Job	10000.00	Job	500000.00
Total					<u>500000.00</u>


 6 AUG 2006

Name of Work:- Construction of 700 Nos. Boys Hostel (8 Stories) at IIT, Roorkee

(819)

Sl. No.	Description of Items	Quantity	Rate	Unit	Amount
Bulk Services (Civil Work)					
1	Over head tank without independent staging	70000.00 ltr.	4.75	ltr.	332500.00
2	Under ground sump	200000.00 ltr.	4.75	ltr.	950000.00
				Total	1282500.00
Bulk Services (Electrical)					
1	Passenger lift for 16 passenger (G+7)	4.00 Job	1800000.00	Job	7200000.00
2	DG set of 125 KVA for lifts & common lights	1.00 No	1250000.00	each	1250000.00
3	Pumps				
	a) Supplying, installation, testing & commissioning electrical terrace pump	2.00 Jon	100000.00	Job	200000.00
4	Electrical work				
	a) Power cabling I/c control cables etc.		LS		150000.00
	b) Electrical panel I/c pressurisation switch	1.00 No	200000.00	each	200000.00
5	Pumping work				
	a) Supplying & laying of MS pipe 100 mm dia on surface	300.00 mtrs	1000.00	mtrs	300000.00
	b) Valves I/c NRV's of various sizes		LS		100000.00
	c) Internal hydrant & hoses reels	24.00 Nos	20000.00	each	480000.00
6	Manual fire alarm system		LS		500000.00
				Total	10380000.00


26 AUG 2006

9H

Name of work :- Construction of 700 capacity 8 storied Boys Hostel for I.I.T. at Roorkee.

Area Calculation :-

1. Plinth Area proposed for 374 capacity boys Hostel including dining hall, kitchen, pantry, T.T. Room, T.V. Lounge, Cyber Café, entrance etc.

Proportionate Plinth Area taken for 700 capacity Boys hostel including dining hall, kitchen, pantry, T.T. Room, T.V. Lounge, Cyber Café, entrance etc.

(i) Plinth Area at G.F. = 2845 Sqm.

(i) Plinth Area at G.F. = 2845.00 Sqm.
Add 5% for Lift Block 142.25 Sqm
Total 2987.25 Sqm

Say 2988.00 Sqm

(ii) Plinth Area at F.F. = 2700 Sqm

(ii) Plinth Area at F.F. = 2988 Sqm

(iii) Plinth Area at S.F. = 2350 Sqm

(ii) Plinth Area at S.F. = 2988 Sqm
 $20134 - 2988 \times 3 = 11170.00$ Sqm
5
= 2234.00 Sqm

(iv) Plinth Area at T.F. = 2350 Sqm

(ii) Plinth Area at Third Floor to Seventh floor = $2234 \times 5 = 11170.00$
Total 20134.00 Sqm

Total 10245 Sqm

Total Plinth Area proposed for 700 capacity 8 storied Boys hostel on proportionate basis
 $10245/374 \times 700$

= 19,175.13 Sqm

Add for lift block & staircase etc. @ 5%

= (+) 958.76 Sqm

Total Plinth Area for 700 capacity

= 20,133.89 Sqm

Reduction in Area

(i) Room size reduced from 2.76mx3.76m to 2.76mx3.30m

Total 888 sqm

(ii) Balcony size reduced by 0.5 sqm.

Total 350 sqm. = (-) 1238.00 sqm


= 18895.89

Say 18,896.00 Sqm

2. Roof Area = 2988.00 Sqm

3. Ground Floor Area 2988.00 Sqm

4. Extra for larger modules $12 \times 18 \times 3 = 648$ Sqm


26 AUG 2006

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CONVOCAATION HALL, IIT, ROORKEE
(ESTIMATE FOR UPGRADATION)

S.No.	Particulars	Qty.(M)	Rate	Amount (Rs.)
01	Replacement of existing roofing sheets with pre-coated galvalume sheets	4800	585	2,808,000.00
02	Civil works including entrance porch, Dholpur stone cladding & minor repairs		Lump sum	2,000,000.00
03	landscaping and external development		Lump sum	400,000.00
04	Aluminium grill work and louvers at front and rear elevation	314	4300	1,350,200.00
05	Toilet upgradation	100	9000	900,000.00
06	Flame finish granite flooring in foyer & central gangway	325	2400	780,000.00
07	I.P.S. finish with design in other gangways and auxilliary areas	1900	300	570,000.00
08	Powder coated metal tile with acoustic insulation in falseceiling	4000	1450	5,800,000.00
09	Replacement of doors and windows	1000 Nos.	Lump sum	250,000.00
10	Curtains with motorized system		Lump sum	300,000.00
11	Metal chairs (as existing design)	1000 Nos.	1000	1,000,000.00
12	Sofas in two front rows	24 Nos.	17000	408,000.00
13	Air cooling and electrical work		Lump sum	9,000,000.00
			Total	2,55,66,000.00

Add 3% Contingencies 7,67,000.00

Grand Total Rs 2,63,33,000.00

Say Rs 263.33 lacs

