

Agenda Notes

2010: 3rd Meeting

of the

Building & Works

Committee

Venue of the Meeting
Conference Hall, PDM-IIITDM Jabalpur
Date and Time of the Meeting
November 27, 2010 at 12.00 Hrs



PDM
Indian Institute of Information Technology,
Design and Manufacturing Jabalpur

Agenda Notes for the 2010/3rd Meeting of Buildings & Works Committee, 2010

[to be held on Saturday, November 27, 2010 at 12:00 hrs.

Venue: Conference Hall, PDPM IIITDM Jabalpur]

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B&WC/2010: 3.01 Opening Remarks by the Chairperson

Opening remarks by the Chairperson will be presented in the meeting itself.

B&WC/2010: 3.02 Confirmation of the Minutes of 2010/ 2nd Meeting of the B&WC held on July 24, 2010

Minutes were circulated after the meeting and are placed at Annexure B&WC/2010/3/A-1 (page P-05 to P-09). No comments have been received from the members.

The Building & Works Committee is requested to confirm the same.

B&WC/2010: 3.03 To consider the Preliminary Estimate for the work of Construction of PG Hostel at PDPM-IIITDM, Jabalpur

A preliminary estimate has been submitted by the Architects, M/s Kanvinde Rai & Chowdhury, New Delhi for construction of PG Hostel at PDPM-IIITDM having a capacity for accommodation of 404 single seated rooms and 98 apartments for married students. The estimate amounting to Rs 3097 lacs (Rs three thousand and ninety seven lacs only) as forwarded by the architects which is based on CPWD Delhi Plinth area rates 2007 with approved cost enhancement i.e 22% at Jabalpur, 3% contingencies and 5% architect fee has been placed as annexure B&WC/2010/3/A-2 (page P-10 to P-36). This estimate has been sent to CPWD for necessary vetting. The vetted estimate from CPWD shall be placed on the table in the meeting itself.

The B & WC is requested to consider the Preliminary Estimate for construction of PG Hostel at PDPM-IIITDM, Jabalpur for an amount as vetted by the CPWD (including the architect fee separately) and to request the Finance committee to consider the same for onward recommendation to the Board of Governors for its administrative approval and expenditure sanction.

B&WC/2010: 3.04 To consider the Preliminary Estimate for the work of Construction of Library cum Computer Centre

A preliminary estimate submitted by the Architects, M/s Datta & Datta Associates, Ahmedabad New Delhi for construction of Library cum Computer Centre at PDPM-IIITDM, Jabalpur. The estimate amounting to Rs 2376 lacs (Rs two thousand three

hundred and seventy six lacs only) as forwarded by the architect, which is based on CPWD Delhi Plinth area rates 2007 with approved cost enhancement i.e 22% at Jabalpur, 3% contingencies and 5% architect fee, has been placed as annexure B&WC/2010/3/A-3 (page P-37 to P-44). This estimate has been sent to CPWD for necessary vetting. The vetted estimate from CPWD shall be placed on the table in the meeting itself.

The B & WC is requested to consider the Preliminary Estimate for construction of Library cum Computer Centre for an amount as vetted by the CPWD (including the architect fee separately) and to request the Finance Committee to consider the same for onward recommendation to the Board of Governors for its administrative approval and expenditure sanction.

B&WC/2010: 3.05 To consider the Preliminary cum detailed Estimate for the Work of Construction of Basket Ball Court (Indoor) Complex at PDPM-IIITDM, Jabalpur

A preliminary cum detailed estimate submitted by the Architect, M/s Datta & Datta Associates, Ahmedabad New Delhi for construction of Basket Ball Court (Indoor) Complex at PDPM-IIITDM, Jabalpur. The estimate amounting to Rs 139 lacs (Rs one hundred and thirty nine lacs only) as forwarded by the architect, which is based on CPWD Delhi Plinth area rates 2007 with approved cost enhancement i.e 22% at Jabalpur, 3% contingencies and 5% architect fee, has been placed as annexure B&WC/2010/3/A-4 (page P-45 to P-66). This estimate has been sent to CPWD for necessary vetting. The vetted estimate from CPWD shall be placed on the table in the meeting itself.

The B & WC is requested to consider the Preliminary cum detailed Estimate (PE) for construction of Basket Ball Court (Indoor) for an amount as vetted by the CPWD (including the architect fee separately) and to request the Finance Committee to consider the same for onward recommendation to the Board of Governors for its administrative approval and expenditure sanction.

B&WC/2010: 3.06 To consider Revised preliminary Estimate for the work of Construction of Hall of Residence-I at PDPM-IIITDM Jabalpur.

The necessity of the revised preliminary estimate for this work is felt because of the reason that the cost index 205 has been considered in the preliminary estimate, the time period allocated for the work was between 18.03.2007 to 18.01.2008. Since the agency could not completed the work in time, provisional extension was granted by the Institute in the interest of work as per the decision taken in the Board. The cost index to 260 as approved on 1.10.07 over DPAR 1992 rates has been taken into consideration and a revised preliminary estimate amounting to Rs. 1473 lacs. against the cost of Rs. 1192 lacs. of the preliminary estimate has been prepared by M/s. Kanvinde Rai & Chowdhry to cover the cost enhancement during the Construction period. The same is enclosed as annexure B&WC/2010/3/A-5 (Page 67 to 75)

The B & WC is requested to consider the Revised Preliminary Estimate for the above work amounting to Rs. 1473 lacs (Rs. One thousand four hundred and seventy three lacs only) and to request the Finance Committee to consider the same and to recommend it to the Board of Governors for its administrative approval and expenditure sanction.

B&WC/2010: 3.07 To Consider the matter related to release of Security Deposit against bank guaranty for the work of Construction of Triple Seated Hall of Residence

The above matter was discussed during the second meeting of B&WC held on July 24, 2010. Further on discussing the matter during the second meeting of finance committee held on July 27, 2010 the committee suggested to take an opinion from the Chief Engineer, CPWD (CZ), Bhopal. The same has been received and is enclosed as annexure B&WC/2010/3/A-6 (Page 76)

The B & WC is requested to consider the matter and give the recommend / decision the clause of releasing Security Deposit.

B&WC/2010: 3.08 Any other Item with the Permission of the Chair

(R. P. Dwivedi)
Secretary B&WC

Agenda Notes for the 2010/3rd Meeting of Buildings & Works Committee, 2010

[to be held on Saturday, November 27, 2010 at 12:00 hrs.

Venue: Conference Hall, PDPM IIITDM Jabalpur]

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B&WC/2010:3.07A	To consider the Preliminary Estimate for the work of construction of Student Activity center (Phase 1) at PDPM-IIITDM Jabalpur	1

B&WC/2010: 3.07A To consider the Preliminary Estimate for the work of Construction of Student Activity Center(phase 1) at PDPM-IIITDM, Jabalpur

A preliminary estimate has been submitted recently by the Architects, M/s Datta & Datta Associates, Ahmedabad for construction of Student Activity Center(Phase 1) at PDPM-IIITDM having provision for indoor badminton courts, squash courts and other indoor games as well as amphitheater. The estimate amounting to Rs 1013 lacs (Rs one thousand and thirteen lacs only) as forwarded by the architects which is based on CPWD Delhi Plinth area rates 2007 with approved cost enhancement i.e 22% at Jabalpur, 3% contingencies and 5% architect fee has been placed as annexure B&WC/2010/3/A-7(Page 77 to P-86). This estimate has been sent to CPWD for necessary vetting. The vetted estimate from CPWD shall be placed on the table in the meeting itself.

The B & WC is requested to consider the Preliminary Estimate (PE) for construction of Student Activity Center(phase 1) for an amount as vetted by the CPWD (including the architect fee separately) and to request the Finance Committee to consider the same for onward recommendation to the Board of Governors for its administrative approval and expenditure sanction.

(R. P. Dwivedi)
 Secretary B&WC

Minutes of 2010/2nd Meeting of Building & Works Committee of PDPM Indian Institute of Information Technology, Design & Manufacturing Jabalpur held on July 24, 2010 at 10.30 AM in Conference Hall of the Institute.

Members Present:

1. Prof Aparajita Ojha,
 Director, PDPM-IITDM Jabalpur
 Chairperson

2. Prof. Puneet Tandon
 Dean (P&D), PDPM-IITDMJ
 Member

3. Shri S.K. Chawla, E.E, CPWD
 (Nominee of Sh. A.K. Verma, S.E.
 CPWD)

4. Shri Amar Singh, EE, MPPKVV Co Ltd.
 (Nominee of Sh. Pankaj Kshatriya, SE,
 MPPKVV Co Ltd.)

5. Shri J.P. Singh, AE(Civil), CPWD
 Special Invitee

6. Shri V.K. Dubey, AE(Civil), PDPM-IITDM J
 Institute Engineer

7. Shri R.P. Dwivedi, Dy Registrar, PDPM-IITDMJ
 Secretary

After deliberations on the agenda items, following recommendations were made by the Committee:-

B&WC/2010 :02:01 Opening Remarks by the Chairperson, B&WC

Chairperson and the Director of the Institute Prof. Aparajita Ojha welcomed the members and informed about the new members of the B&WC. Then the chairperson introduced the nominee of the members and special invitees with the other members of the Committee. Sh. V. K. Dubey, AE(C) made a presentation about the Institute's Works under construction/proposed works.

Members expressed their satisfaction on the progress of construction of Triple Seated Hall of Residence I. The Chairperson also informed that the progress of construction work of Hall of Residence I was also satisfactory during last few months. However, the provisionally extended date of completion was 31st May 2010 has been already lapsed. It was informed to the Committee that the agency has requested granting extension upto 31st August 2010.

B&WC/2010 :02:02

Confirmation of Minutes of 2010/1st Meeting of the Building & Works Committee held on Feb 22, 2010.

Minutes of the 2010/1st meeting of B&WC held on February 22, 2010 were confirmed.

B&WC/2010 :02:03

To consider the Preliminary Estimate for the work of

Amr 1/5/10

Amrith K. J.

The members deliberated on the requirement of revised preliminary estimate for the above work. The modified drawings of the above building alongwith revised preliminary estimate was also discussed at length by the Committee. The CPWD officials present in the meeting clarified the difference between the amount of RPE as vetted by CPWD and the amount of RPE given by Architect. Hence, the Revised Preliminary Estimate as vetted by CPWD for the above work and amounting to Rs. 37,31,94,000/- (Rs. Thirty seven Crores, Thirty one lakhs and Ninety four thousands only) including 22% Cost Index at Jabalpur, 3% Contingencies, 5% Architects Fee(Plus

To consider the Revised Preliminary Estimate for the work of Construction of Lecture Hall & Tutorial Complex.

B&WC/2010 :02:05

The committee recommended to the BOG for Administrative Approval and Expenditure Sanction.

The Preliminary Estimate as vetted by CPWD for the above work and amounting to Rs. 11,85,22,000/- (Rs. Eleven Crores, Eighty five lakhs and Twenty two thousands only) including 22% Cost Index at Jabalpur, 3% Contingencies, 5% Architects Fee (Plus Service tax as applicable on fee) was recommended to the Finance Committee.

The B&WC discussed the concept drawings, design, specifications and preliminary estimate of the above Construction Work. The requirement of providing accommodation within the Institute's premises for the visiting faculty and other guests was considered by the Committee. The CPWD officials present in the meeting clarified the difference between the amount of PE as vetted by CPWD and the amount of PE given by Architect.

To consider the Preliminary Estimate for the work of Construction of Visitors' Hostel

B&WC/2010 :02:04

The Committee recommended to the BOG for Administrative Approval and Expenditure Sanction.

After the discussions, the B & WC recommended the Preliminary Estimate as vetted by CPWD for the above work and amounting to Rs. 22,78,04,000/- (Rs. Twenty two Crores, Seventy Eight lacs and four thousands only) including 22% Cost Index at Jabalpur, 3% Contingencies, 2.5% Architects Fee for repeated work (Plus Service tax as applicable on fee) to the Finance Committee.

The B&WC discussed at length the concept drawings, design, specifications and preliminary estimate of the above Construction Work. The immediate requirement of additional Hostel due to increase in strength of students was also taken into consideration. The CPWD officials present in the meeting clarified the difference between the amount of PE as vetted by CPWD and the amount of PE given by Architect. The Committee approved the suggestion from one of the members to rename the above Building as Hall of Residence - 4 so as to avoid any confusion between the names of hostels and to maintain a sequence between the adjacent hostel buildings.

Construction of Triple Seated Hall of Residence-2 (Renamed as Hall of Residence-4 during the meeting itself).

Service tax as applicable on fee) was approved by the Committee to recommend to the Finance Committee.
The committee recommended the above proposal for consideration and approval of Finance Committee to recommend to the BOG for Administrative Approval and Expenditure Sanction.

B&WC/2010 :02:06
To consider the Revised Estimate (RE) for the work of Shifting of 33 KV Dumna Feeder away from the PDRM-IIITDM Campus.

The revised Estimate submitted by Madhya Pradesh Poorva Kshetra Vidut Vitran Company Ltd (MPKVV) for the above work was thoroughly discussed by the Committee. The justification as provided by the MPKVV for framing the RE was also found to be satisfactory. The Revised Estimate amounting to Rs. 18,00,104/- (Rs. Eighteen lakhs and One hundred four only) against the original amount of Rs. 9,61,751/- (Rs. Nine lakhs sixty one thousand seven hundred fifty one only) was approved by the Committee.

Since the amount of work was within the purview of the sanctioning power of the Director, the Administrative Approval and Expenditure Sanction for the above work was accorded by the B&WC.

B&WC/2010 :02:07
To consider the Revised Estimate(RE) for the work of Power Supply to 1500 KVA new HT connection on 33 KV to PDRM-IIITDM.

The revised Estimate submitted by Madhy Pradesh Poorva Kshetra Vidut Vitran Company Ltd (MPKVV) for the above work was considered by the Committee. The justification as provided by the MPKVV for framing the RE was also discussed at length. The Revised Estimate amounting to Rs. 1,33,28,340/- (Rs. One Crore, Thirty three lakhs Twenty eight thousand Three hundred Forty only) against the original Estimate of Rs. 63,39,922/- (Rs. Sixty three lakhs Thirty nine thousand Nine hundred Twenty two only) was approved by the Committee in place of Rs. 1,31,14,268/- (Rs. One Crore Thirty one lakhs Fourteen thousand Two hundred Sixty eight only) approved by the Committee for recommendation to the Finance Committee in its 2010/1st meeting held on February 22, 2010.

The committee recommended to the Finance Committee to consider the above modified amount of RE (vetted by MPKVV) and to recommend the same to the BOG for Administrative Approval and Expenditure Sanction.

B&WC/2010 :02:08
To consider the Preliminary cum Detailed Estimate for the work of Construction of Road Network (Phase-I) at PDRM-IIITDM.

The vetted estimate as provided by the CPWD for the above work and amounting to Rs.2,55,00,000/- (Rs. Two Crore fifty five lakhs only) was discussed at length by the Committee. The urgent need of Road Network within the campus was also felt. Hence, the Preliminary cum Detailed Estimate as vetted by CPWD for the above work, amounting to Rs. 2,55,00,000/- (Rs. Two Crore Fifty five lakhs only) including 22% Cost Index at Jabalpur, 3% Contingencies, 5%

07
Kishor Jaiswal

Limit of fees

Architects Fee (Plus Service tax as applicable on fee) was recommended by the Committee to the Finance Committee.
The committee recommended the above proposal for consideration and approval of Finance Committee to recommend to the BOC for Administrative Approval and Expenditure Sanction.

B&WC/2010 :02:09

To consider the Preliminary Estimate for the work of External Electrification & Lighting (Phase-I)

The Committee has considered the above Estimate. It was informed by the CPWD that some clarification regarding rate analysis of certain market rated items in the Estimate to be done by the consultant were awaited and hence the Estimate could not be finalized. The committee therefore decided to postpone above agenda item.

B&WC/2010 :02:10

Report item

The Committee went through the list of works annexed as Annexure-A9 for which A/A and E/S had been accorded by the Director during the period mentioned and noted the same.

B&WC/2010 :02:11

Any Other item with the permission of chair

To consider the progress for the Work of Construction of Hall of Residence-I.

B&WC/2010/02:11.1

The present status of the above work was informed to the Committee. It was also informed to the Committee that though provisional extension of time was granted to the agency upto 31st May 2010 (as approved by the BOC in its 2010/1st meeting), but finishing items in the last block of the building still requires some time and the agency has made a request to further grant extension of time upto 31st August 2010. Considering the present pace of work and after taking the opinion of CPWD officials, Committee recommended to grant provisional extension of time to the agency upto 31st August 2010.

The Building and Works Committee recommended granting provisional extension of time to M/s NM Roof Pvt. Ltd. upto 31st August, 2010. The Committee also recommended extending time to the concerned Electrical Agency accordingly.

B&WC/2010/02:11.2

To consider the matter related to release of Security Deposit against Bank Guarantee/FDR.

There have been certain requests from the construction agencies that the security deposit be released by the Institute against bank guarantee. The matter was discussed at length by the Committee. The provisions of Section 20 of CPWD Manual were also discussed in details. The Committee decided to seek an opinion from the Chief Engineer, CPWD, Bhopal regarding the interpretation of the provisions of Section 20 of CPWD Manual and also of the provisions lying in the agreements for the concerned works.

B&WC/2010/02:11.3 Report item - Award of the Work of Erection of HT Line (2nd Circuit) from Sita Pahad to Gora Bazar. (Providing of 1500 KVA load on 33KV to PDDM IITDM Jabalpur)

It was reported to the Committee that the above said work has been awarded to M/s Samway Electrical Contractors (L1) on a negotiated amount of Rs. 62,00,000/- (Rs. Sixty two lakhs) against quoted amount as 66.39 lakhs.

Committee noted the same with satisfaction.

The meeting concluded with a vote of thanks to the Chairperson and other members.

R.P. Dwivedi
(R.P. Dwivedi)

Deputy Registrar & Secretary

Submitted for Approval please

26-7-2010
HO

(Prof. Aparajita Ojha)

Chairperson

Approved

Sub: PE for Construction of PG Hostel, IIT DM at Jabalpur

Major Head: Minor

Head: Detailed Head:

The PG Hostel is designed for a capacity of 404 single scatter rooms & 98 apartments for Married Students, supported by a Facilities Block comprising Lounge, Recreation, Canteen/Kitchen and Administration. The building is sited adjacent to Hostel 3 and the Sports field

This PE amounting to Rs.30,97,52,531/- (Rs. thirty crores, ninety seven lacs, fifty two thousand five hundred and thirty one only) including 22% cost index, 3% contingency and 5% Architect's fees, has been framed by M/s Kanvande Rai & Chowdhury. This estimate has been framed as per demand raised by PDPM-IITDM Jabalpur.

History: This preliminary Estimate amounting to Rs.30,97,52,531/- (Rs. thirty crores, ninety seven lacs, fifty two thousand five hundred and thirty one only) including 3% contingencies, 22% Cost Index & 5.515% Architect Fees has been framed to meet the probable cost of above work and to obtain the Administrative Approval and Expenditure Sanction of the competent authority.

Design & Scope - The estimate has been framed based on the following architectural drawings:

- 1 Location Plan - 01
- 2 Site Plan-02
3. Concept-03
4. Single seater Hostel/Facility Block Ground Floor Plan -04
5. First Floor & Area Statement -05
6. Second Floor & Section, Elevation -06
7. Third Floor & Section , Elevation-07
8. Fourth Floor & Typical Bay -08
9. Married Student Housing Ground Floor -09
10. First Floor & Area Statement -10
11. Second & Third Floor Plan and Typical unit plan-11
12. Fourth Floor Plan -12
13. Sections & Elevations -13

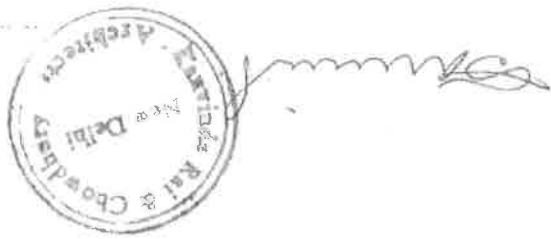
The estimate includes construction of PG Hostel with following specifications:

1. G+4 storied RCC framed structure.
2. Brick infill cavity walls.
3. Provision of earth quake resistant design.
4. Internal water supply and sanitary installation.
5. External service connection.
6. Internal electrification.
7. Telephone and computer conduiting.
8. Aluminium windows with provision of fly mesh.
9. Kota stone for circulation and rooms. Vitrified tiles for public areas.
10. Lifts.
11. Fire alarm system & wet riser system.
12. Energy Efficient features:
- a. Cavity walls.
- b. Roof insulation with china mosaic
- c. Solar water heating.



Specifications: The work shall be carried out as per CPWD specification 1996 Vol I to VI and revised specifications 2007 with upto date correction slips.

Rate	Cost	Land	W.C.	Estt	T&P	Method	Time
Plinth area rates 2007 duly enhanced by Cost Index of 122 as approved.	Rs.30,97,52,531/- (Rs. thirty crores, ninety seven lacs, fifty two thousand five hundred and thirty one only)	available with client	:	:	:	Through CPWD	18 months



Brief Specification

S.No.	Description	Specification
1.	Foundation	Isolated/combined footings for RCC columns at 1.50m depth from general ground level and load bearing capacity of soil 10T/Sqm
2.	Structure	RCC frame (G+4) structure with brick masonry cavity filler walls of ghole modular bricks of class designation 50 with insulation Half brick masonry walls with ghole modular bricks of class designation 50
3	Door & Windows	Anodised aluminium double rebated frames for doors, windows/ventilators
3.2	Door shutters	Rooms-35mm thick flush door shutters painted on both faces and stainless steel fittings
		25mm thick particle board shutters one side decorative other side balancing lamination for cupboards
		35mm thick flush shutter with laminate for toilets
3.3	Window/Ventilator shutters	Anodised aluminium box sections windows with insulated glass & aluminium fittings & friction hinges.
3.4	Cupboard shelves & drawers	18 mm commercial board painted.
4.	Flooring & Dado	
4.2	Corridors	25mm thick polished Kota stone in pattern with marble bands, with 100mm high skirting
4.3	Hostel & Married Student Housing Rooms	25mm thick polished Kota stone
4.4	Rooms, Dining Hall lounge/Reception/Canteen	Vitrified tiles of 600x600mm in floor and 100mm high vitrified tile skirting
4.5	Platforms	18mm thick Granite stone on pantry and wash basin counter. Kitchen to be provided with S.S. kitchen equipment not in this scope.
4.6	Toilets	Non-skid vitrified tile flooring and ceramic tiles dado on walls of toilets
4.7	Kitchen/Wash/Stores	Polished Kota flooring and ceramic tile dado in kitchen
4.8	Stair Case	Single piece 25mm thick polished kota in treads & risers with anti skid grooves in treads
4.9	Open Court yard	Paver blocks & natural stone as per architectural drawings
5.	Railing	Mild steel railing in stair case & corridors



6.	Roofing	Roof insulation with water proofing treatment	
6.1	Roof treatment	& China mosaic finish	
7	Finishing		
7.1	External	Exposed aggregate plaster/Sand face Plaster	
7.2	Internal	Oil bound distemper	
7.3	Painting	Synthetic enamel paint on all exposed wood work	
8.	Sanitary Fittings	White vitreous china oval shaped wash basin with 18mm granite platform in toilets, WC pan/EWC with low level PVC flushing cistern and CP brass toilet fittings.	
9.	Water Supply	Concealed GI pipes for internal water supply as per the requirement.	Provision of separate insulated hot water supply line to rooms from terrace so that in future it can be connected to solar water heater.

AE(P)I
Central Zone
CPWD, Bhopal

BE(P)I
Central Zone
CPWD, Bhopal

SE(P)
Central Zone
CPWD, Bhopal



[Handwritten signature]

NAME OF WORK : PG BLOCK, IIT DM JABALPUR : Part - A, 2 HOSTEL CLUSTERS (404 ROOMS)

Preliminary Estimate based on CPWD Plinth Area Rates 2007 & MR.

I : Civil Work (Based on CPWD Plinth Area Rates 2007 with C.I. = 122 & MR)

S. NO.	Code	Description	Unit	Qty.	Rate	Amount
1 RCC Framed Structure :						
1	1.1	RCC framed structure upto six storeys	Sqm	9500	9100	86450000
	1.1.2	Floor height 2.90 m				
	Extra for :					
2	1.2.3	For 0.25m additional height of floor above 2.90 m	Sqm	9500	150	1425000
	1.2.4	For 3.4 m additional height of floor above 2.90 m	Sqm	495	1700	841500
3	1.2.5	For 0.30 m deeper foundation over normal depth of 1.2 m (for ground floor area only)	Sqm	1570	150	235500
4	1.2.8	Resisting Earthquake forces	Sqm	9500	630	5985000
5 Water Tank (RCC only)						
5	5.1	Overhead tank without independent staging	Litre	68000	9	612000
6	1.4	Fire Fighting				
	1.4.1	With wet riser system	Sqm	9500	300	2850000
	1.5	Fire Alarm System				
7	1.5.2	Manual Fire Alarm System	Sqm	9500	155	1472500
Total A						Rs. 99871500

Building Cost (sl. No.1)

Rs.

86450000

3 Services :

8	3.1	Internal water supply and sanitary installation		86450000	10%	8645000
9	3.2	External service connections		86450000	5%	4322500
10	3.4	Internal electric installations		86450000	12.5%	10806250
	Extra for :					
	3.6					
11	3.6.3.1	Lighting conductor (5-8 storeys)		86450000	0.33%	285285
12	3.6.4	Telephone conduits		86450000	0.5%	432250
13	3.6.6	Computer conduiting		86450000	0.5%	432250
Total B						Rs. 24923535



Kavya Rai & Co. Architects

Energy Efficient Features						
14	MR	Extra for 300 mm cavity wall	Sqm	6295	484	3046780
15	MR	Extra for roof insulation	Sqm.	2185	575	1256375
16	MR	Extra for china mosaic on roof	Sqm.	2185	345	753825
17	MR	Extra for solar heating system	Solar panels	24	15000	360000
Total C					Rs.	5416980

Extra for additional specifications						
18	MR	Extra for pergola	Sqm.	150	2394	359100
Total D					Rs.	359100

4 Passenger Lift						
19	4.1.1	Passenger Lift (G+4) for 8 persons		4	1350000	5400000
Total E					Rs.	5400000

Total A+B+C+D+E						135971115
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NAME OF WORK : PG BLOCK, IIT DM JABALPUR : Part - A, 2 HOSTEL CLUSTERS (404 ROOMS)
 BREAK UP OF COMPONENT WISE COST

S.No.	Description	Amount
1	Framed Structure including services (A + B + E)	130195035
2	Enhancement over DPAR 22%	28642908
3	Energy efficiency (C)	5416980
4	Extra for additional specifications (D)	359100
Total		164614023



Kanvinda Rai & Chowdhary

NAME OF WORK : PG BLOCK, IIT DM JABALPUR (Part - B, MARRIED STUDENTS HOUSING (100 UNITS))

Preliminary Estimate based on CPWD Plinth Area Rates 2007 & MR.

1 : Civil Work (Based on CPWD Plinth Area Rates 2007 with C.I. = 122 & MR)

S. NO.	Code	Description	Unit	Qty.	Rate	Amount
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1 RCC Framed Structure :						
1	1.1	RCC framed structure upto six storeys	Sqm	5550	9000	49950000
	1.1.2	Floor height 2.90 m	Sqm			
	1.2	Extra for :				
2	1.2.3	For 0.25m additional height of floor above 2.90 m	Sqm	5550	150	832500
	1.2.4	For 3.4 m additional height of floor above 2.90 m	Sqm	400	1700	680000
3	1.2.5	For 0.30 m deeper foundation over normal depth of 1.2 m (for ground floor area only)	Sqm	920	150	138000
4	1.2.8	Resisting Earthquake forces	Sqm	5550	630	3496500
	5	Water Tank (RCC only)				
6	5.1	Overhead tank without independent staging	Litre	34000	9	306000
7	1.4	Fire Fighting				
	1.4.1	With wet riser system	Sqm	5550	300	1665000
	1.5	Fire Alarm System				
8	1.5.1	Manual Fire Alarm System	Sqm	5550	155	860250
Total A						Rs. 57928250

Building Cost (sl. No.1) 49950000

3 Services :						
9	3.1	Internal water supply and sanitary installation		49950000	12%	5994000
10	3.2	External service connections		49950000	5.00%	2497500
11	3.4	Internal electric installations		49950000	12.5%	6243750
	3.6	Extra for :				
12	3.6.3.1	Lightning conductor (5-8 storeys)		49950000	0.33%	164835
13	3.6.4	Telephone conduits		49950000	0.5%	249750
14	3.6.5	Centralized intercom system		49950000	1.00%	499500
Total B						Rs. 15649335



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Energy Efficient Features						
15	MR	Extra for 300 mm cavity wall	Sqm	3900	484	1887600
16	MR	Extra for roof insulation	Sqm	1150	575	661250
17	MR	Extra for China mosaic on roof	Sqm	1150	345	396750
18	MR	Extra for solar heating system	Solar panels	24	15000	360000
Total C					Rs.	3305600

Extra for additional specifications						
19	MR	Extra for pergola	Sqm	100	2394	239400
Total D					Rs.	239400

Passenger Lift						
20	4.1.1.9	Passenger Lift (G+4) for 8 persons		3	1350000	4050000
Total E					Rs.	4050000

Total A+B+C+D+E						81172585
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NAME OF WORK : PG BLOCK, IIT DM JABALPUR (Part - B HOUSING)					
BREAK UP OF COMPONENT WISE COST					

S.No.	Description	Amount
1	Framed Structure including services (A + B + E)	77627585
2	Enhancement over DPAR 22%	17078069
3	Energy efficiency (C)	3305600
4	Extra for additional specifications (D)	239400
Total		98250654



NAME OF WORK : PG BLOCK, IIT DM JABALPUR (Part - C, FACILITIES BLOCK)

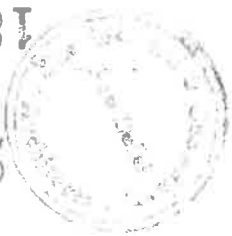
Preliminary Estimate based on CPWD Plinth Area Rates 2007 & MR.

I : Civil Work (Based on CPWD Plinth Area Rates 2007 with C.I. = 122 & MR)

S. NO.	Code	Description	Unit	Qty.	Rate	Amount
1 RCC Framed Structure :						
1	1.1.1	RCC framed structure upto six storeys Floor height 3.35 m	Sqm	585	13200	7722000
	1.2	Extra for :				
2	1.2.3	For 0.25m additional height of floor above 3.35 m	Sqm	585	150	87750
		For 3.85m additional height of floor above 3.35 m	Sqm	27	1925	51975
3	1.2.5	For 0.30 m deeper foundation over normal depth of 1.2 m (for ground floor area only)	Sqm	585	150	87750
4	1.2.8	Resisting Earthquake forces	Sqm	585	630	368550
5	1.2.12	Larger modules over 35 sqm.	Sqm	196	990	194040
	1.4	Fire Fighting				
6	1.4.1	With wet riser system	Sqm	585	300	175500
	1.5	Fire Alarm System				
7	1.5.2	Manual Fire Alarm System	Sqm	585	155	90675
Total A						Rs. 8778240

Building Cost (sl. No.1) 7722000

3 Services :						
8	3.1	Internal water supply and sanitary installation		7722000	10.00%	772200
9	3.2	External service connections		7722000	5.00%	386100
10	3.4	Internal electric installations		7722000	12.50%	965250
	3.6	Extra for :				
11	3.6.1	Power wiring & plugs.		7722000	4.00%	308880
12	3.6.3.1	Lightning conductor (upto 4 storeys)		7722000	0.5%	38610
13	3.6.4	Telephone conduits		7722000	0.5%	38610
14	3.6.6	Computer conducting		7722000	0.5%	38610
15	LS	Extra for Kitchen Electrical loads & Cable tray				100000
Total B						Rs. 2648280



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Shrini

Energy Efficient Features						
16	MR	Extra for 300 mm cavity wall	Sqm.	295	484	142780
17	MR	Extra for roof insulation	Sqm.	510	575	293250
18	MR	Extra for china mosaic on roof	Sqm.	585	345	201825
19	MR	Extra for solar heating system	Solar panels	2	15000	30000
Total C						Rs. 667855

Extra for additional specifications						
20	MR	Extra for pergola	Sqm.	50	2394	119700
21	LS	Extra for Kitchen drainage system including channel, Grease traps etc.				100000
Total D						Rs. 219700

Total A+B+C+D						12314055
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NAME OF WORK : PG BLOCK, IIT DM JABALPUR (Part - C, FACILITIES BLOCK)
 BREAK UP OF COMPONENT WISE COST

S.No.	Description	Amount
1	Framed Structure including services (A+B)	11426500
2	Enhancement over DPAR 22%	2513830
3	Energy efficiency (C)	667855
4	Extra for additional specifications (D)	219700
Total		14827885



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NAME OF WORK : PG BLOCK, IIT DM JABALPUR (Part - D, DEVELOPMENT OF SITE)
Preliminary Estimate based on CPWD Plinth Area Rates 2007 & MR

6 Development of site						
1	6.1	Leveling	Sqm	14450	55	794750
2	6.2	Internal roads and paths	Sqm	14450	83	1199350
3	6.3	Sewer	Sqm	14450	63	910350
4	6.4.3	Unfiltered water supply	Sqm	14450	27	390150
5	6.5	Storm water drains	Sqm	14450	50	722500
6	6.6	Horticulture operations	Sqm	14450	47	679150
7	6.7.3	Street lighting with HPSV lamps	Sqm	14450	95	1372750
Total A						6069000

* For development of site, area of courts is not included

Extra for additional specifications						
8	MR	Rain Water Harvesting recharge pit	Each	2		175000
Total B						350000

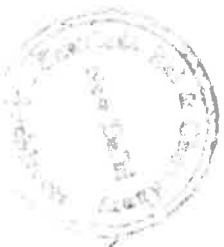
Total A+B						6419000
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NAME OF WORK : PG BLOCK, IIT DM JABALPUR (Part - D, DEVELOPMENT OF SITE)
 BREAK UP OF COMPONENT WISE COST

S.No.	Description	Amount
1	Development of site A	6069000
2	Enhancement over DPAR 22%	1335180
3	Extra for additional specifications B	350000
Total A + B		7754180



Signature

NAME OF WORK : PG BLOCK, IIT DM, JABALPUR

TOTAL SUMMARY OF COST

S.No.	Description	Amount in Rs.
1	PART A - CLUSTERS 2 NO. (404 ROOMS)	164614023
2	PART B - MARRIED STUDENT HOUSING (100 UNITS)	98250654
3	PART C - FACILITIES BLOCK	14827885
4	PART D - DEVELOPMENT OF SITE.	7754180
	Subtotal	285446741
	Architect Fee 5%+ 10.3% Service Tax	15742388
	Contingencies 3%	8563402
	Grand Total	309752531



Kaavinda Rai & Co.

KEY PLAN
SCALE 1:17500



PG HOSTEL III T DM, JABALPUR

LOCATION PLAN

SCALE
1:3500

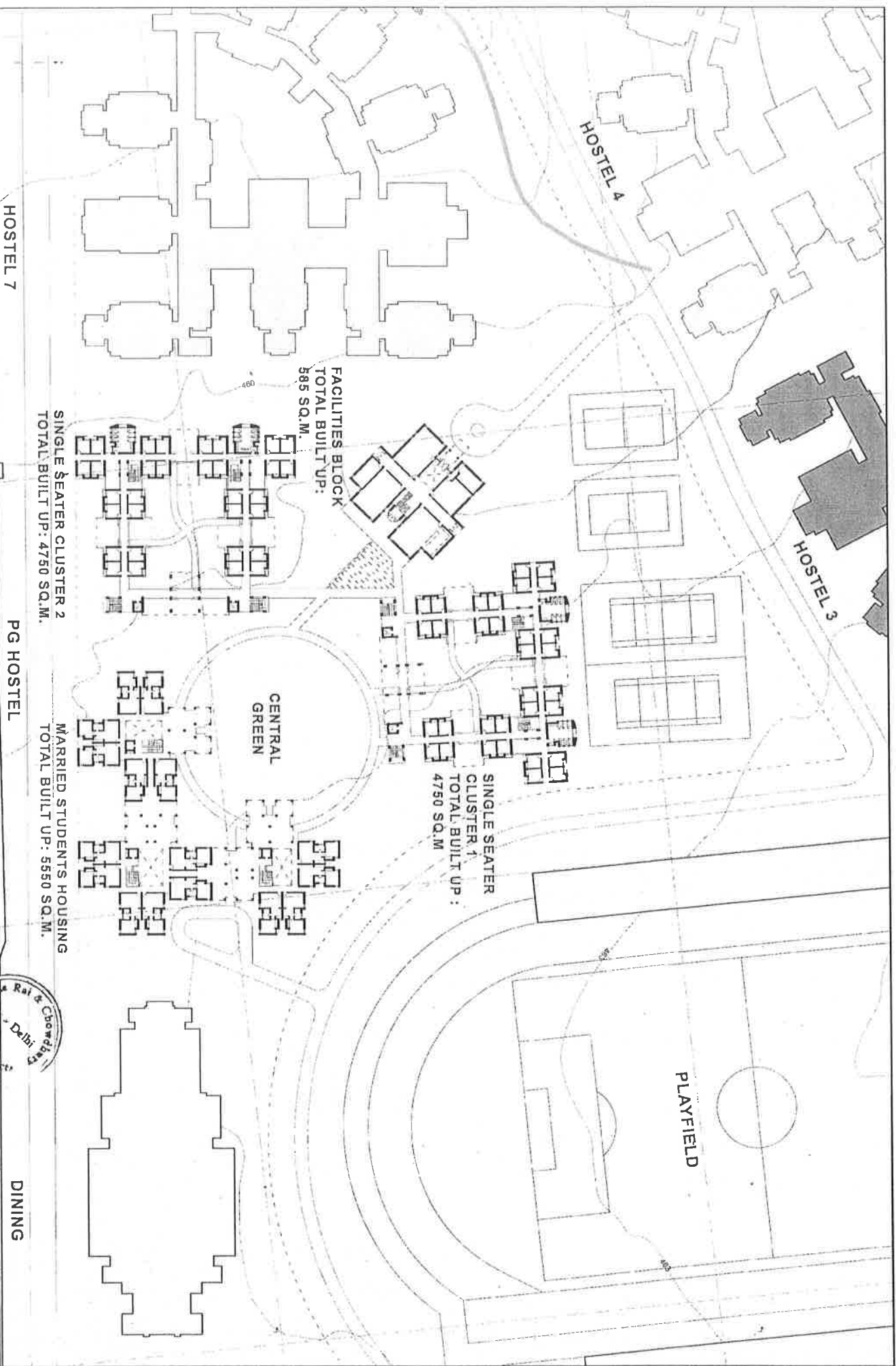


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HOSTEL 7

HOSTEL 4

HOSTEL 3

FACILITIES BLOCK
TOTAL BUILT UP:
585 SQ.M.

SINGLE SEATER CLUSTER 2
TOTAL BUILT UP: 4750 SQ.M.

CENTRAL
GREEN

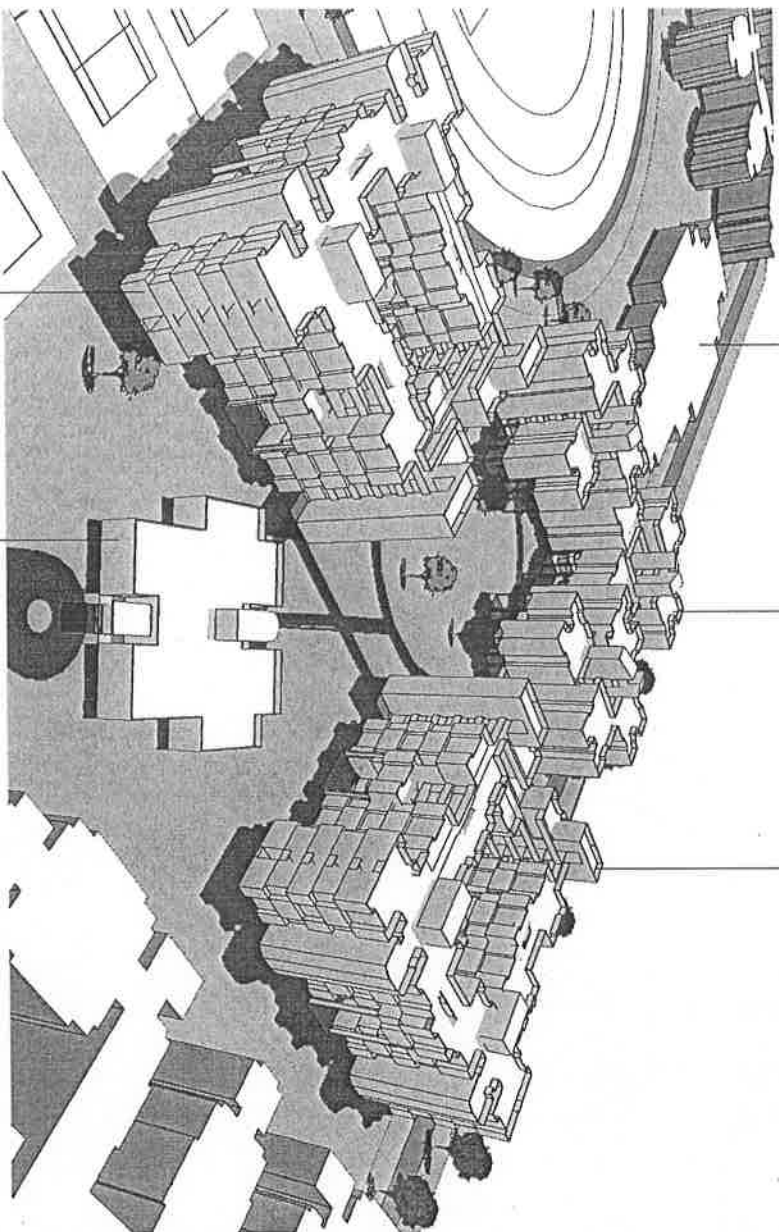
MARRIED STUDENTS HOUSING
TOTAL BUILT UP: 5550 SQ.M.

SINGLE SEATER
CLUSTER 1
TOTAL BUILT UP:
4750 SQ.M.

PLAYFIELD

PG HOSTEL

DINING



SINGLE SEATER
CLUSTER 1

DINING BLOCK

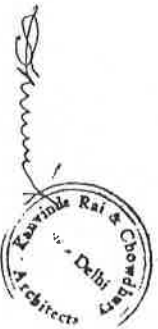
MARRIED
STUDENT
HOUSING

SINGLE SEATER
CLUSTER 2

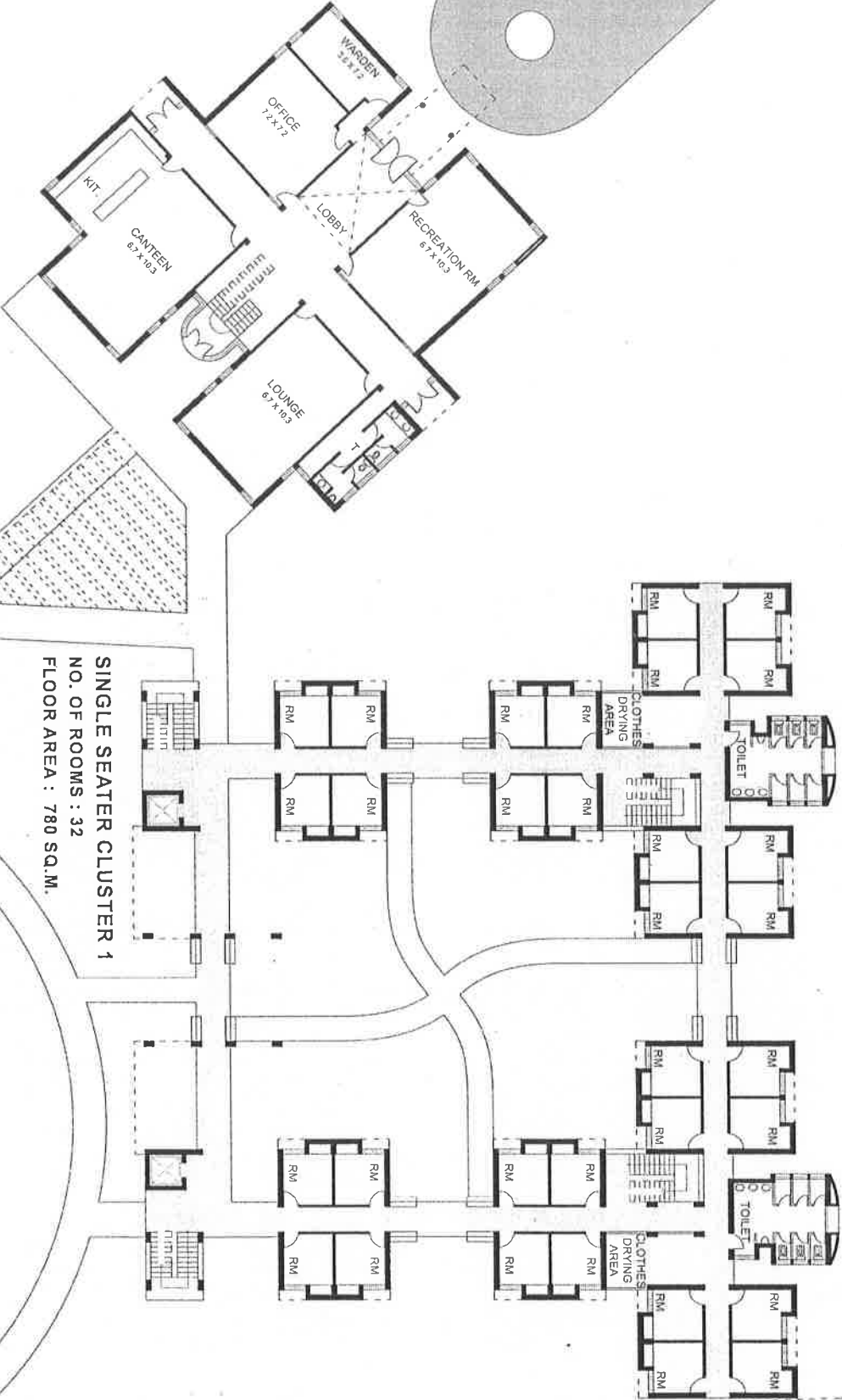
FACILITIES BLOCK

DESIGN APPROACH/SALIENT FEATURES

- PG Hostel brief: Married Student Housing for 100 1 BR apartments & 400 single seater Hostel.
- 1 BR apartment of Married Student Housing consists of Living, Dining, Kitchen, Bedroom & Toilet.
- Facilities Block to cater to Administration, Warden, Recreation, Canteen, Lounge etc.
- Dining Block to be shared between PG Hostel & proposed Girls Hostel.
- Proposed site situated along plot edge near the playground & flanked by the proposed Hostel 7 & Dining Hall and Hostel 3 across from the pedestrian path.
- Access from 6m road along the plot edge and also from 3m pedestrian/cycle way along the playground.
- Since the plot available for the PG Hostel is quite tight, it is necessary to have a development that is somewhat higher than the existing Hostels
- Since PG Hostel comprises two components namely the Married Student Housing & Single Seater Hostel, it is desirable to have a distinct identity for both in terms of form & function, both entities sharing the common facilities.
- Conscious attempt to reduce footprint of building yet not have a very high building with the development limited to 5 floors.
- The entire development is designed in the form of clusters around courts. The 3 clusters & the Facilities Block share a common central green space.
- Hierarchy of space within the open space structure.
- Facilities Block planned as a single storey development & serves as an entrance point for both the Single Seater & Married Student Housing.
- Creation of double height silted areas at the ground floor thereby increasing the visual linkage of the open space network.
- Massing/ variation in skyline, form envisaged as stepped development to reduce monotony of a uniform height development.
- Provision of silted area for cycle parking on the periphery, accessed from the rear & segregated from the pedestrian movement.
- Setbacks assumed are 6m from the rear access road & pedestrian path, 15m from the adjoining proposed Hostel 8 and 12m from the proposed Dining Block.
- Provision of adequate spill out spaces, toilets, drying clothes, verandahs & drinking water outlets at every floor.
- Provision of lifts & staircases as per travel distance requirement of the National Building Code.



PLAYFIELDS



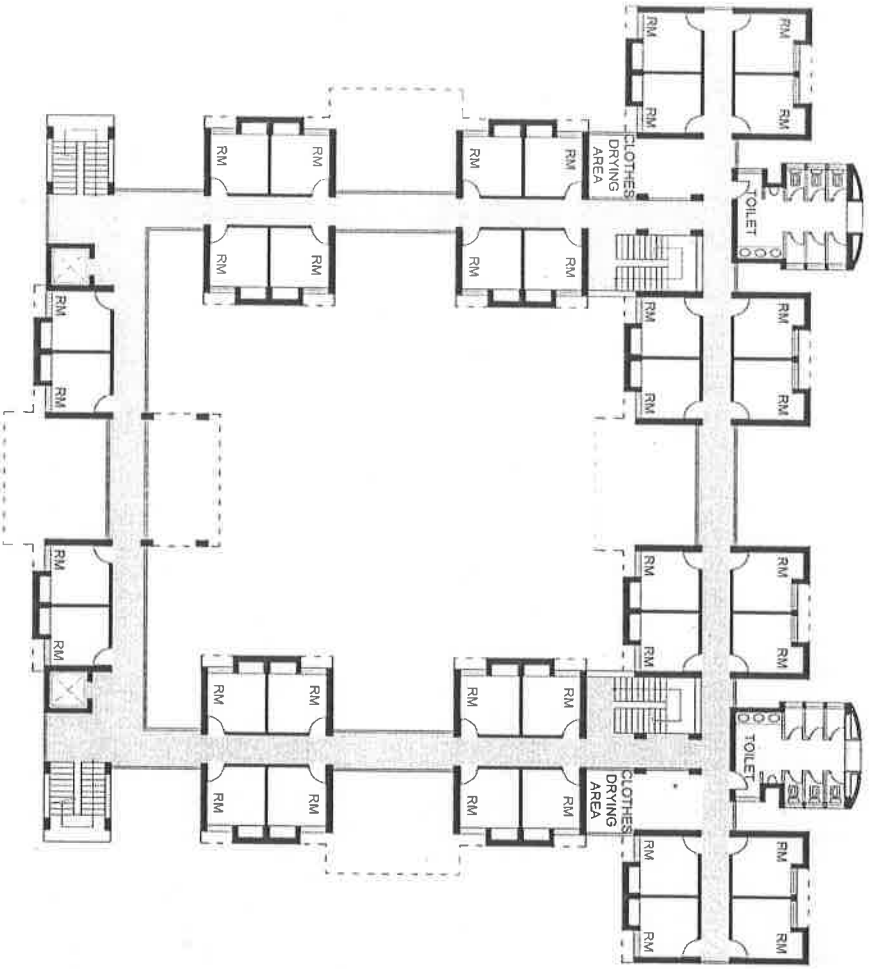
FACILITIES BLOCK
FLOOR AREA : 585 SQ.M

SINGLE SEATER CLUSTER 1
NO. OF ROOMS : 32
FLOOR AREA : 780 SQ.M.

GROUND FLOOR PLAN

CENTRAL GREEN





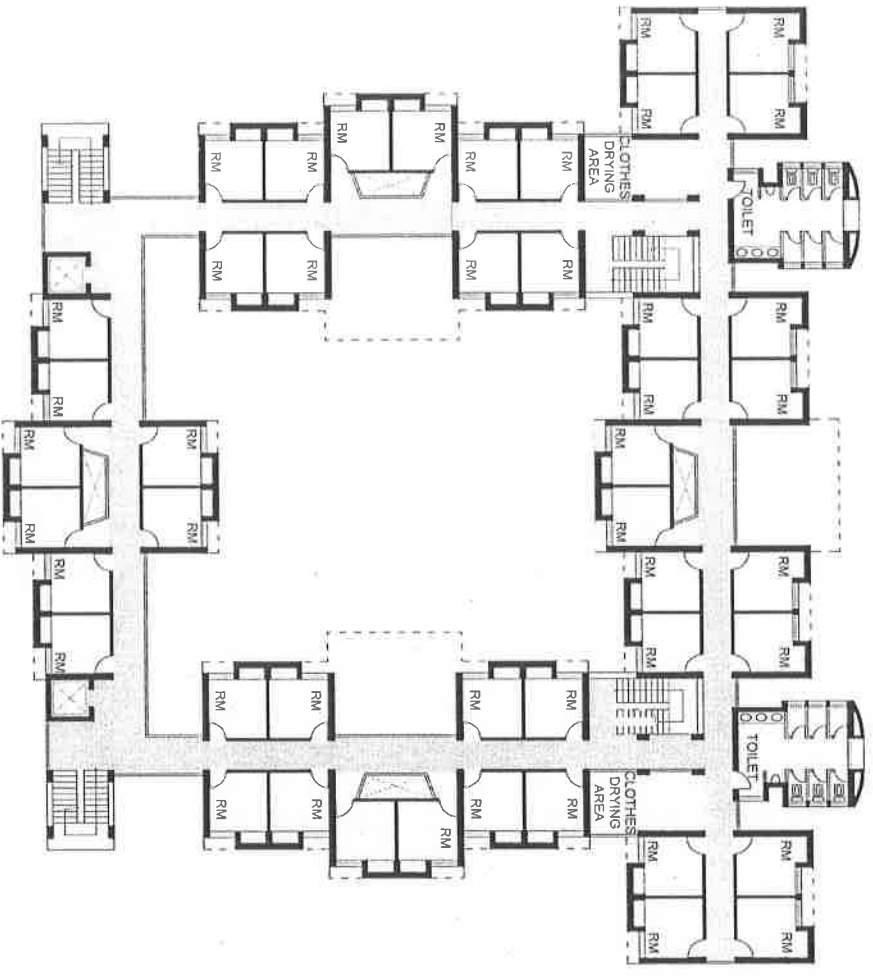
SINGLE SEATER CLUSTER 1
 NO. OF ROOMS: 36
 FLOOR AREA: 910 SQ.M.
FIRST FLOOR PLAN

AREA STATEMENT :

CLUSTER	FLOOR AREA	NO. OF ROOMS
FLOOR		
GROUND FLOOR	780 SQ.M.	32
FIRST FLOOR	910 SQ.M.	36
SECOND FLOOR	1040 SQ.M.	46
THIRD FLOOR	1040 SQ.M.	46
FOURTH FLOOR	980 SQ.M.	42
CLUSTER TOTAL	4750 SQ.M.	202
TOTAL CLUSTER 1&2	9500 SQ.M.	404

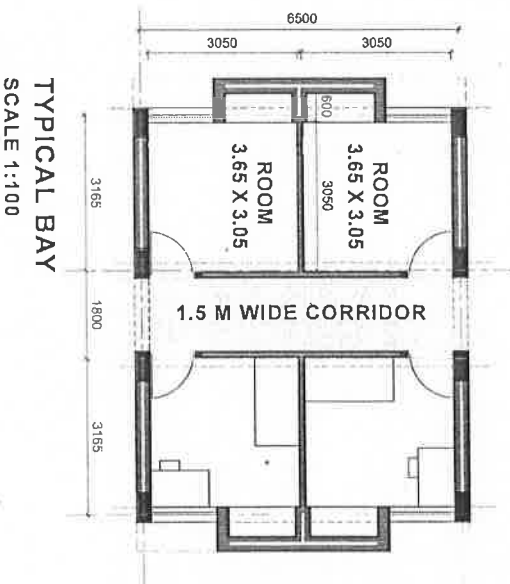
FACILITIES BLOCK	FLOOR AREA
FLOOR	
GROUND FLOOR	585 SQ.M.
TOTAL	585 SQ.M.



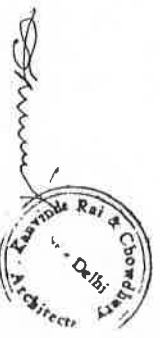


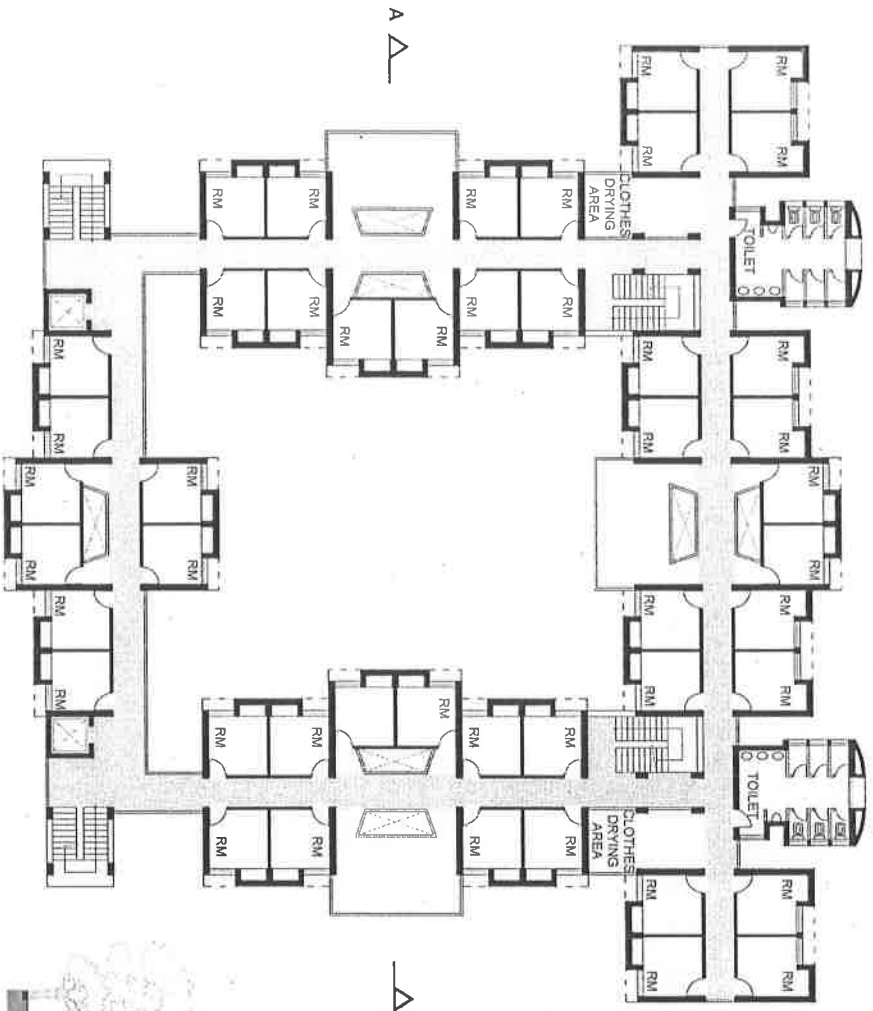
SINGLE SEATER CLUSTER 1
 NO. OF ROOMS: 46
 FLOOR AREA: 1040 SQ.M.

SECOND FLOOR PLAN



TYPICAL BAY
 SCALE 1:100

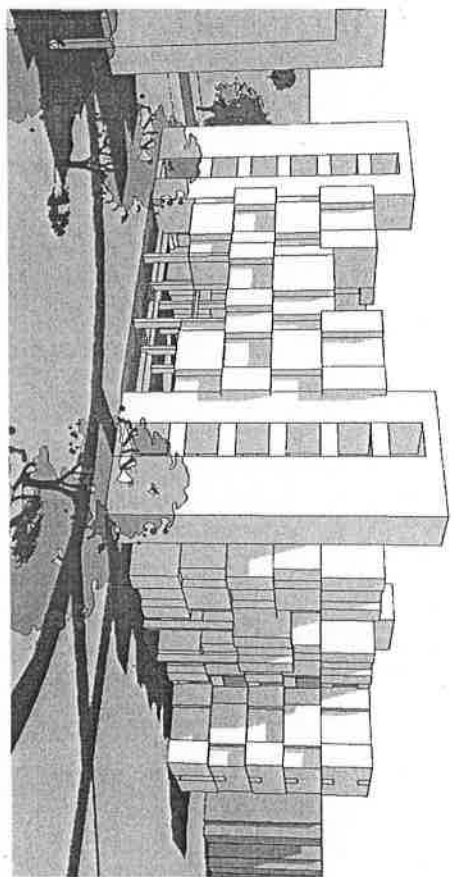




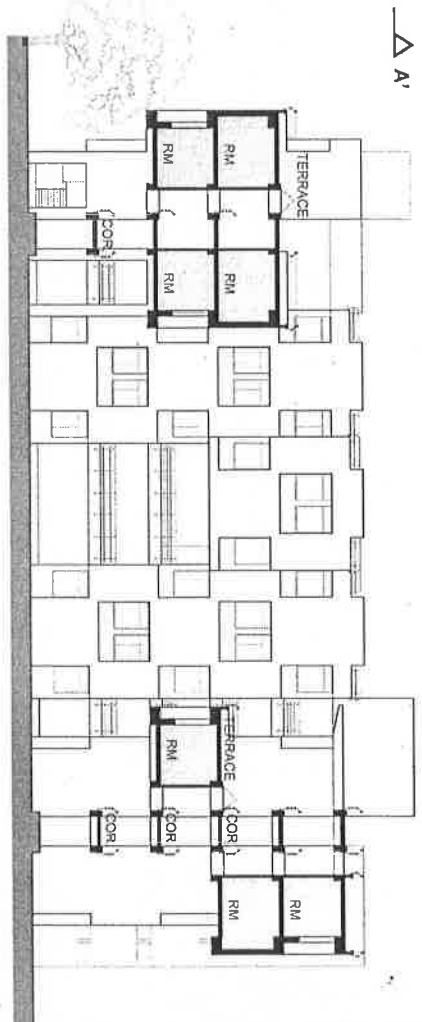
SINGLE SEATER CLUSTER 1

NO. OF ROOMS: 46
FLOOR AREA: 1040 SQ.M.

THIRD FLOOR PLAN

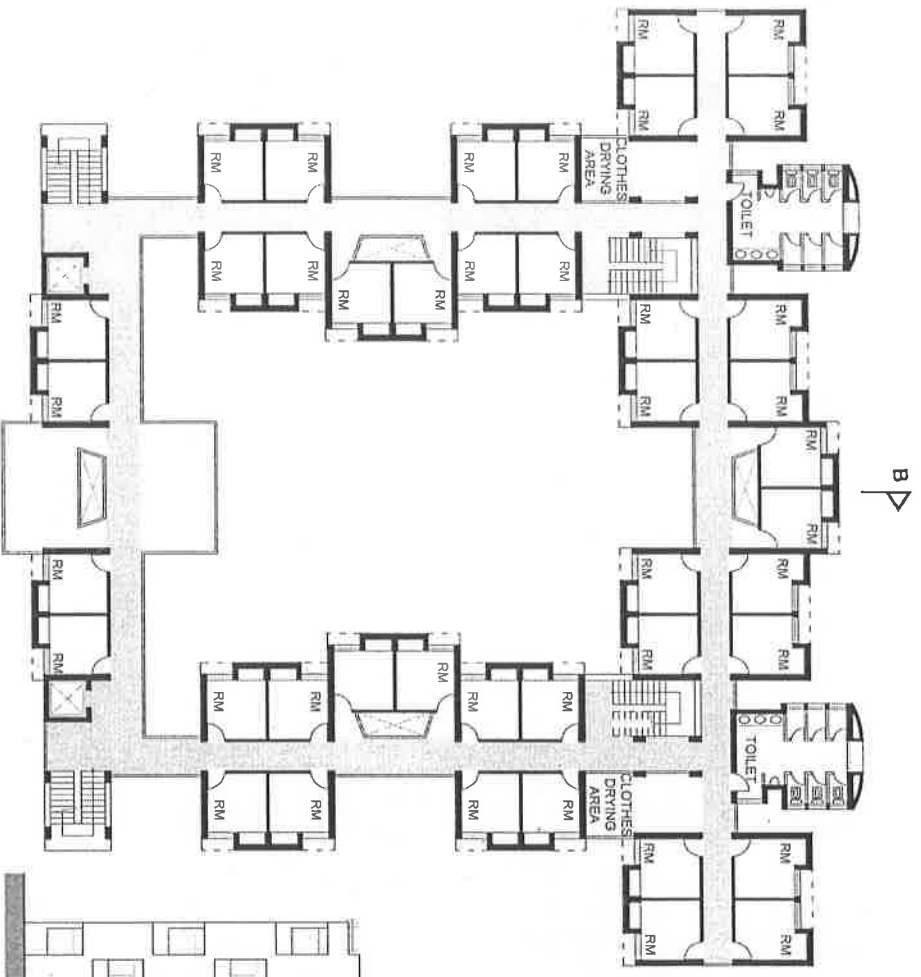


SINGLE SEATER CLUSTER



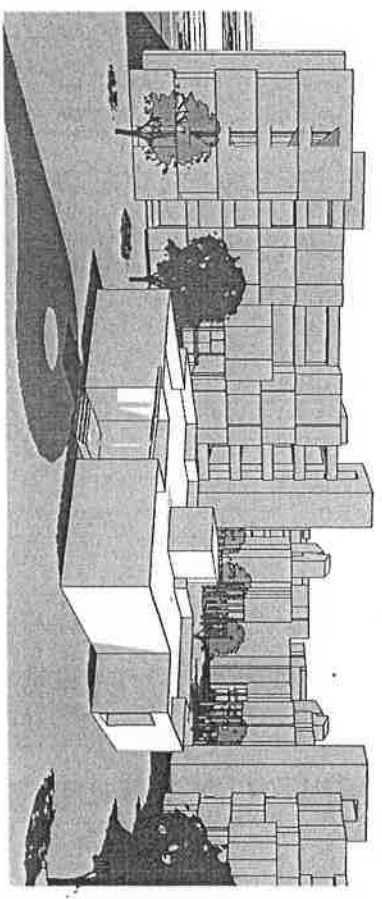
SECTION AA'



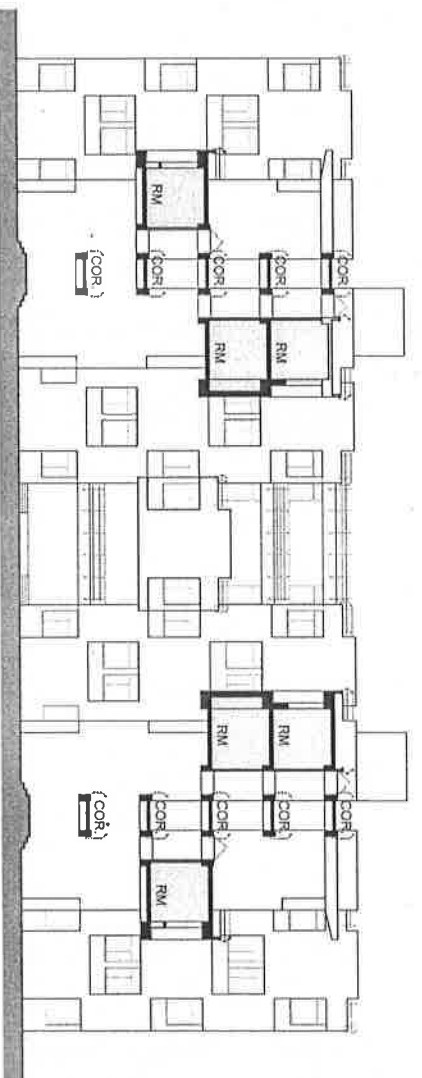


SINGLE SEATER CLUSTER 1
 NO. OF ROOMS: 42
 FLOOR AREA: 980 SQ.M.

FOURTH FLOOR PLAN



FACILITIES BLOCK



SECTION BB'

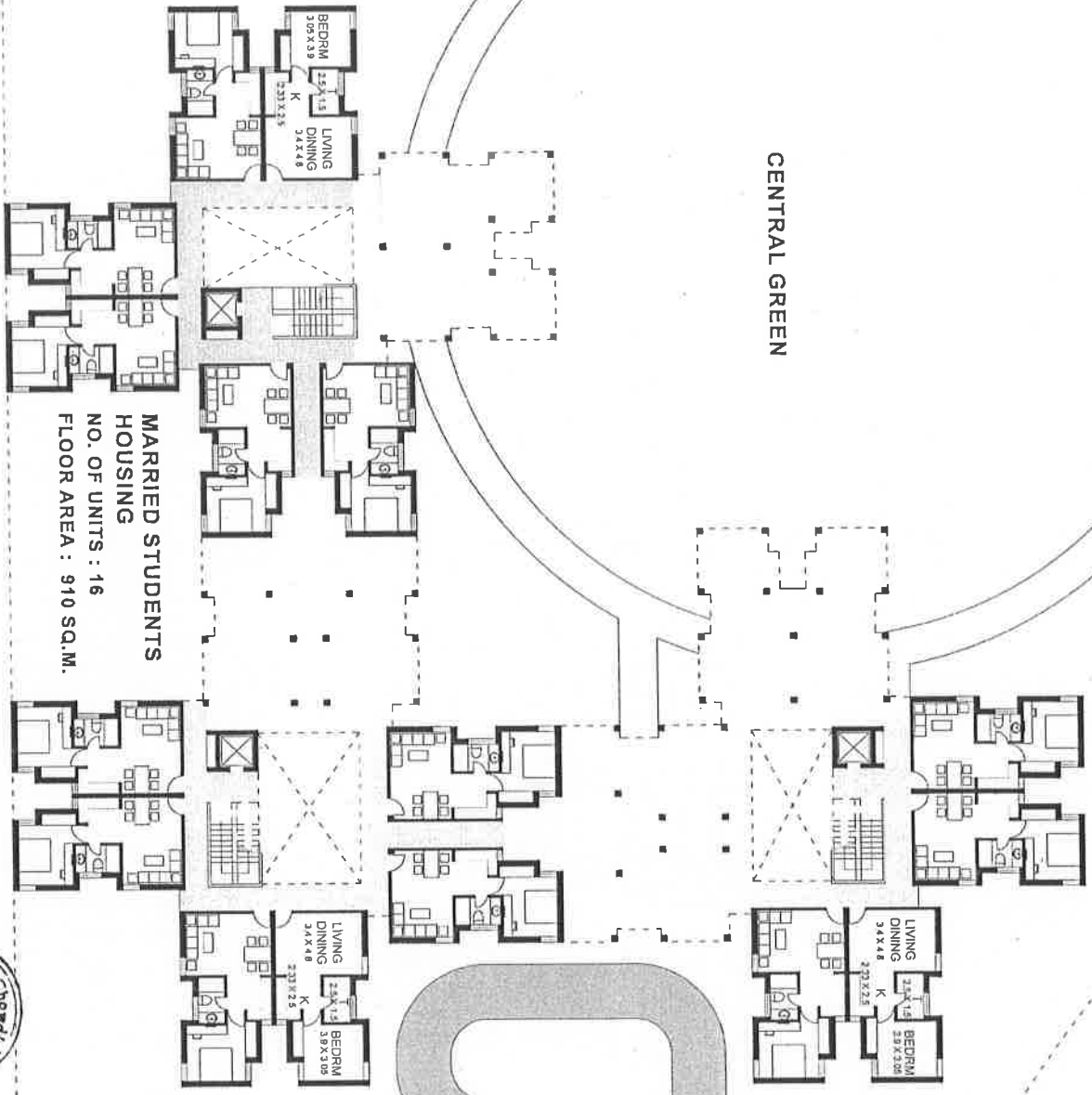


SINGLE SEATER
CLUSTER 2

GROUND FLOOR PLAN

PG HOSTEL IIT DM, JABALPUR

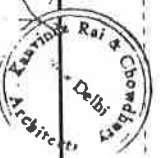
CENTRAL GREEN



MARRIED STUDENTS
HOUSING
NO. OF UNITS : 16
FLOOR AREA : 910 SQ.M.

DINING BLOCK

SCALE
1:350



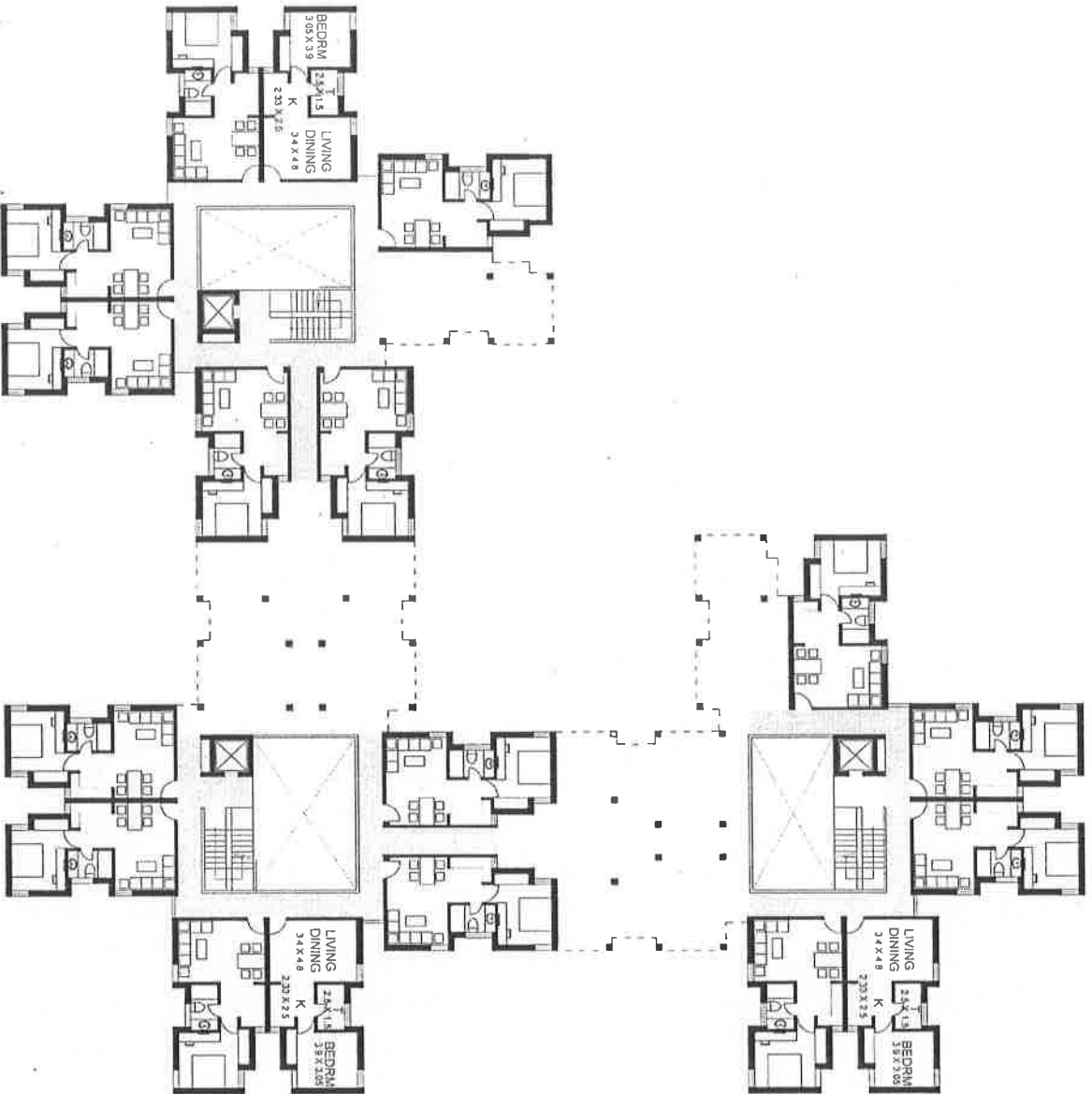
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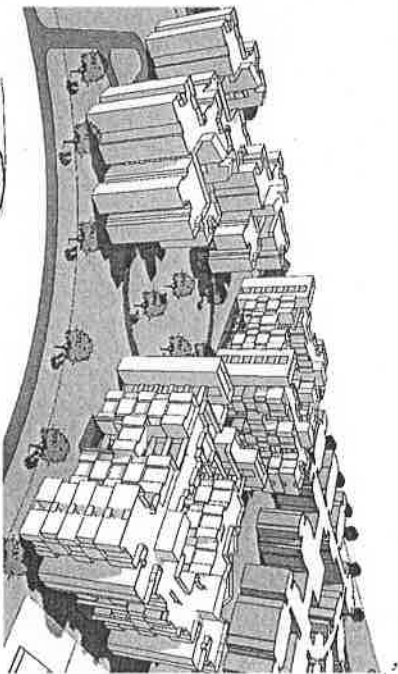
AREA STATEMENT :

HOUSING FLOOR	NO. OF UNITS	FLOOR AREA
GROUND FLOOR	16	910 SQ.M.
FIRST FLOOR	18	1020 SQ.M.
SECOND FLOOR	24	1355 SQ.M.
THIRD FLOOR	24	1355 SQ.M.
FOURTH FLOOR	16	910 SQ.M.
TOTAL	98	5550 SQ.M.



FIRST FLOOR PLAN

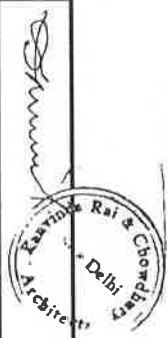
NO. OF UNITS : 18 FLOOR AREA : 1020 SQ.M.



PG HOSTEL IIT DM, JABALPUR

MARRIED STUDENTS HOUSING

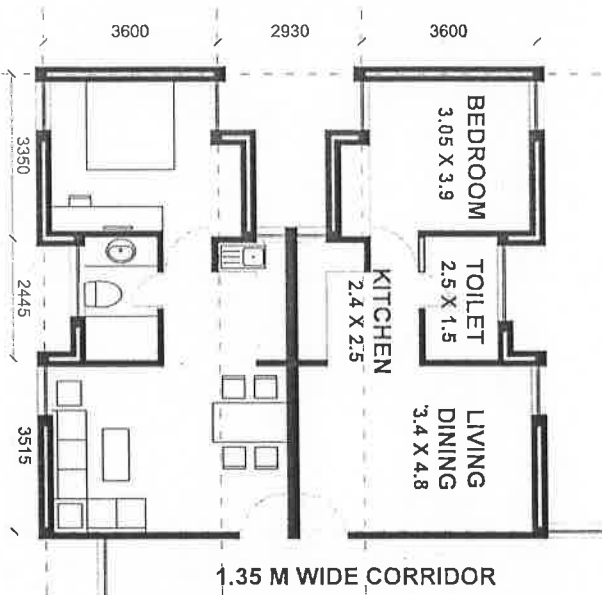
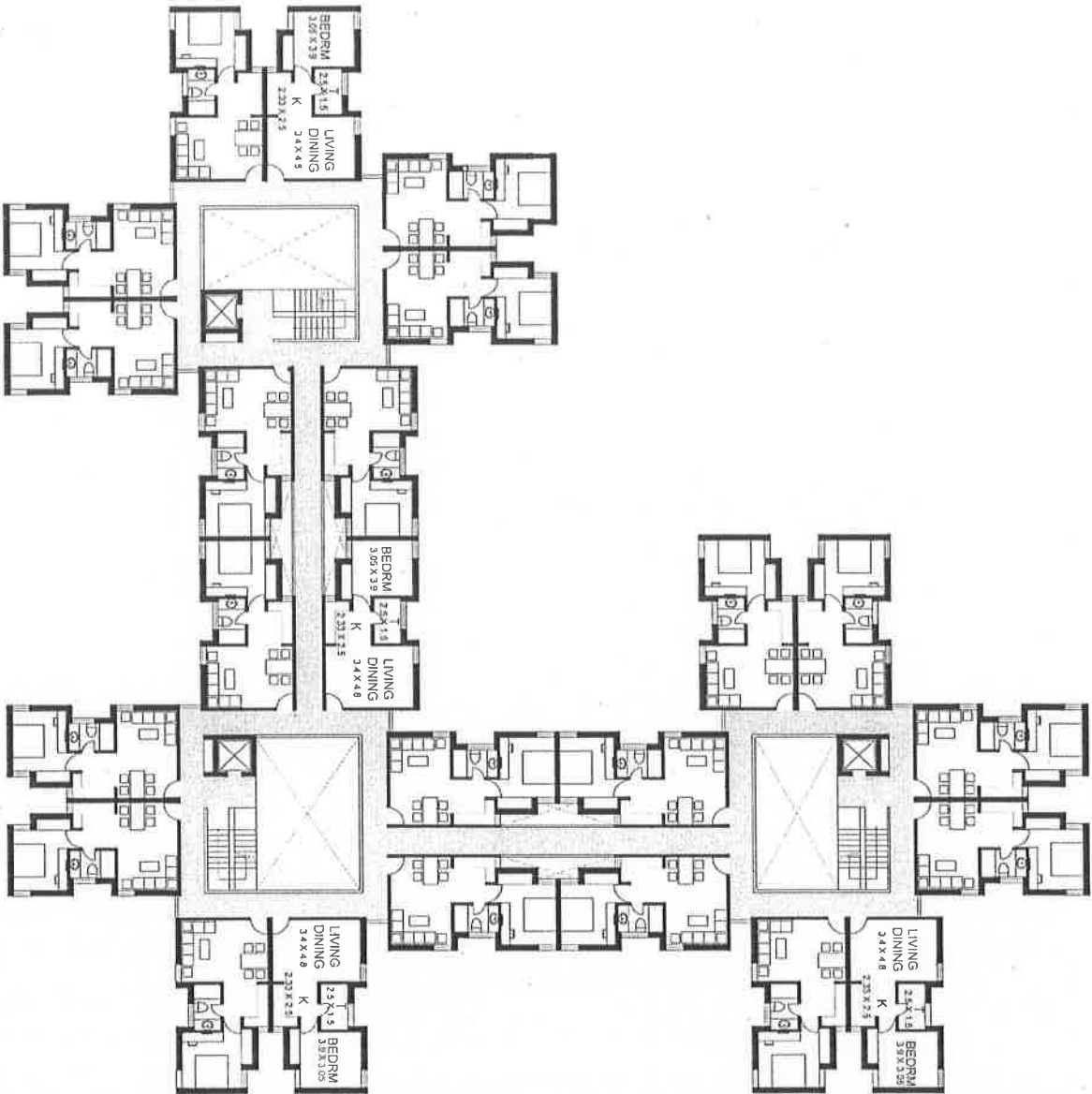
SCALE 1:350



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SECOND & THIRD FLOOR PLAN NO. OF UNITS : 24 FLOOR AREA : 1355 SQ.M.

CPG HOSTEL IIT DM, JABALPUR

MARRIED STUDENTS HOUSING

SCALE 1:350



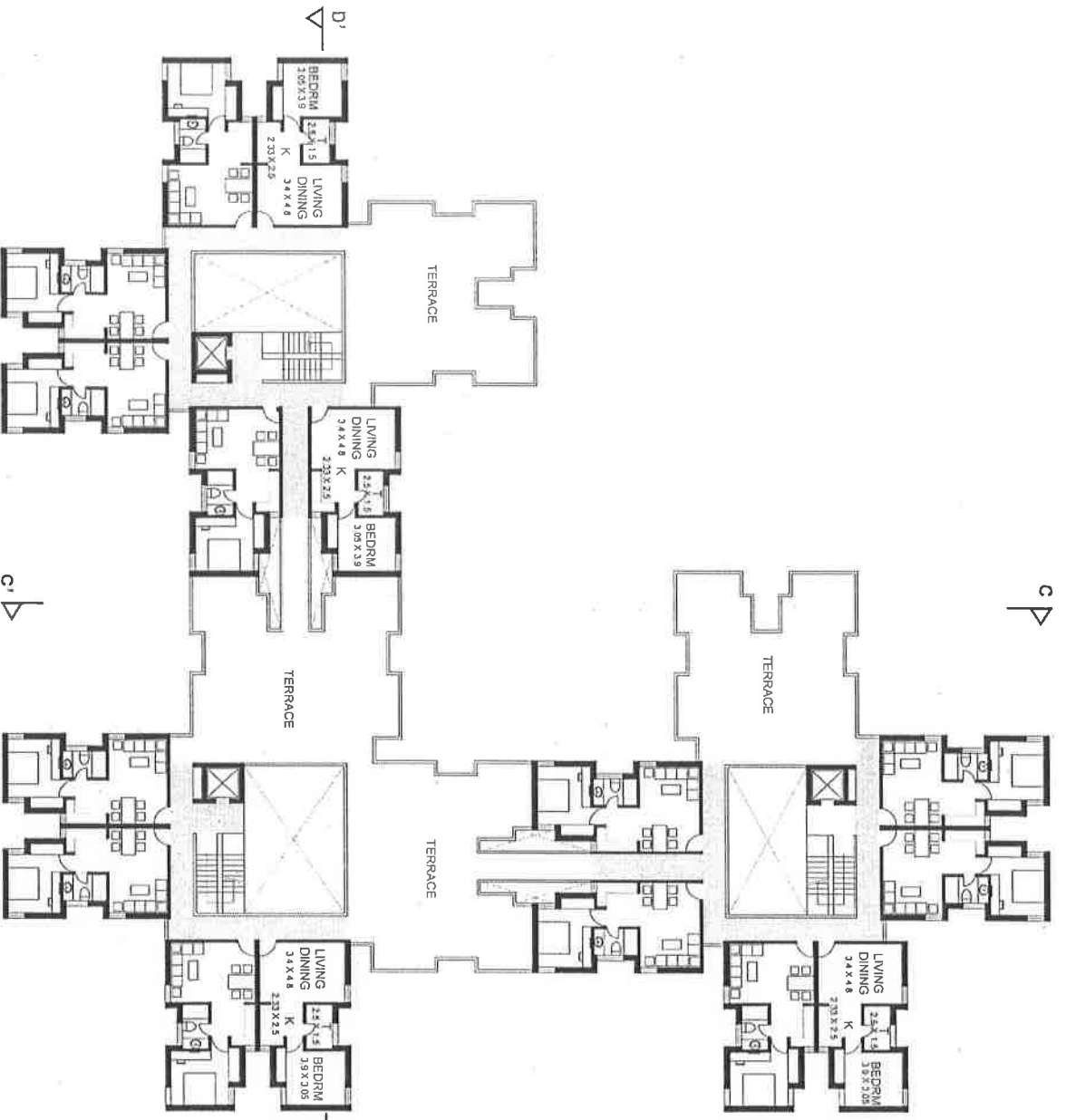
Kanvinde, Rai & Chowdhury



KANVINDE, RAI & CHOWDHURY architects & planners, new delhi

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12/11/2010



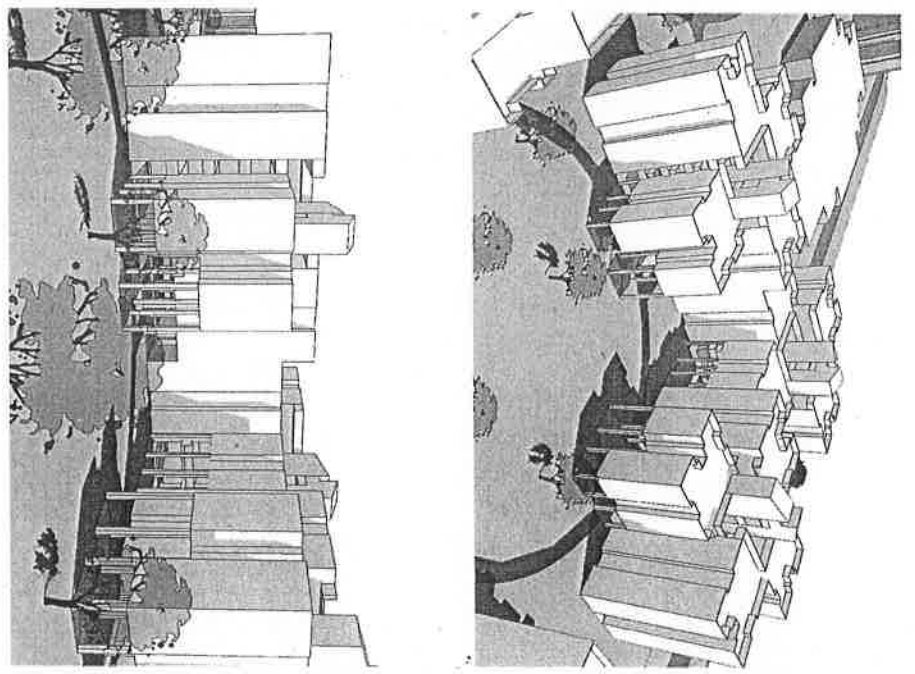
FOURTH FLOOR PLAN

NO. OF UNITS : 16 FLOOR AREA : 910 SQ.M.

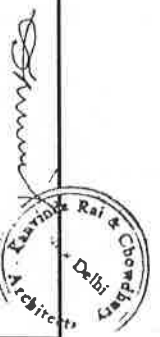
PG HOSTEL III T DM, JABALPUR

MARRIED STUDENTS HOUSING

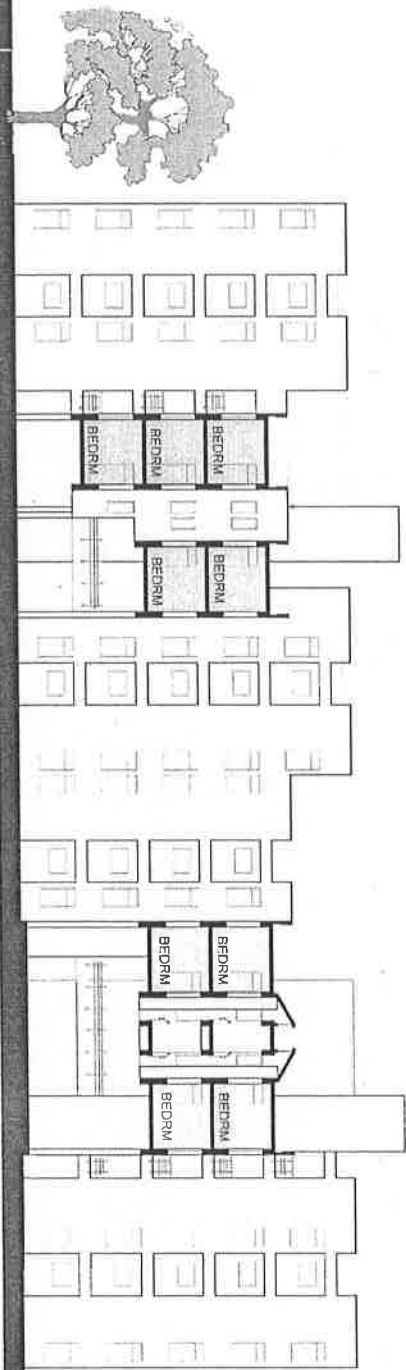
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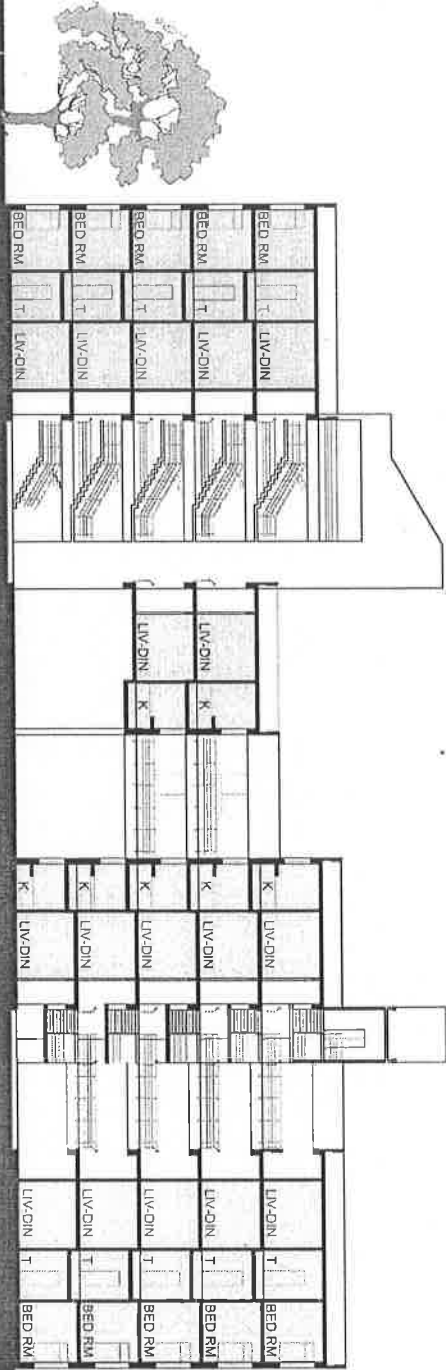
MARRIED STUDENTS HOUSING



KAVINIDE, RAI & CHOWDHURY architects & planners, new delhi



SECTION CC'



SECTION DD'

SPG HOSTEL IIT DM, JABALPUR

MARRIED STUDENTS HOUSING

SCALE
1:350



Signature



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architects & planners, new delhi

Name of Work:- Library Cum Computer Center for PDPM IIT D&M, Jabalpur(MP)

Fund :-

Major Head	Minor Head	Detailed Head
	Deposit Work	

This Preliminary Estimate Framed by Datta and Datta Associates, Ahmedabad of the probable cost of Rs. 23,75,95,125/- (Rupees Twenty Three crore Seventy Five Lac ninety five thousand one hundred twenty five only) including 22% cost Index, 3 % contingencies, 1.5% Project Management and 5% Architect fees.

REPORT

History:- This Preliminary estimate amounting to Rs. 23,75,95,125/- including 22% cost Index, 3 % contingencies, 1.5% Project Management and 5% Architect fees has been framed to meet the probable cost of the above work and for accord of Administrative Approval & Expenditure Sanction from the competent authority.

The requisition for the work has been communicated by the institute during meeting of the Institute with its consultant at Delhi on dated 28.08.2010.

Design & Scope :- The preliminary estimate has been framed based on the following architectural drawings, received from Director, PDPM IIT D&M, Jabalpur (MP) And developed by Architects Datta and Datta Associates on-behalf of PDPM IIT D&M, Jabalpur (MP).

Sr.No.	Drg. No.	Description
1	W - 01	Ground Floor Plan
2.	W - 02	First Floor Plan
3.	W - 03	Second Floor Plan

SPECIFICATION:

The work shall be carried out as per CPWD specification 2007 Vol I to II.

RATE :-

As per PAR 2007 with upto date correction slips duly enhanced by approved cost index of 122 for Jabalpur as on 01.07.09.

Cost :-

23,75,95,125/- including 1.5% Project Management and including consultancy fee.

W.C. Estt.:-

Shall be met out of contingencies, if required.

Datta & Datta Associates

LAND:- Available with client.
T & P:- No special T&P will be required.
METHOD:- By contract after call of tenders.
TIME:- 20 months

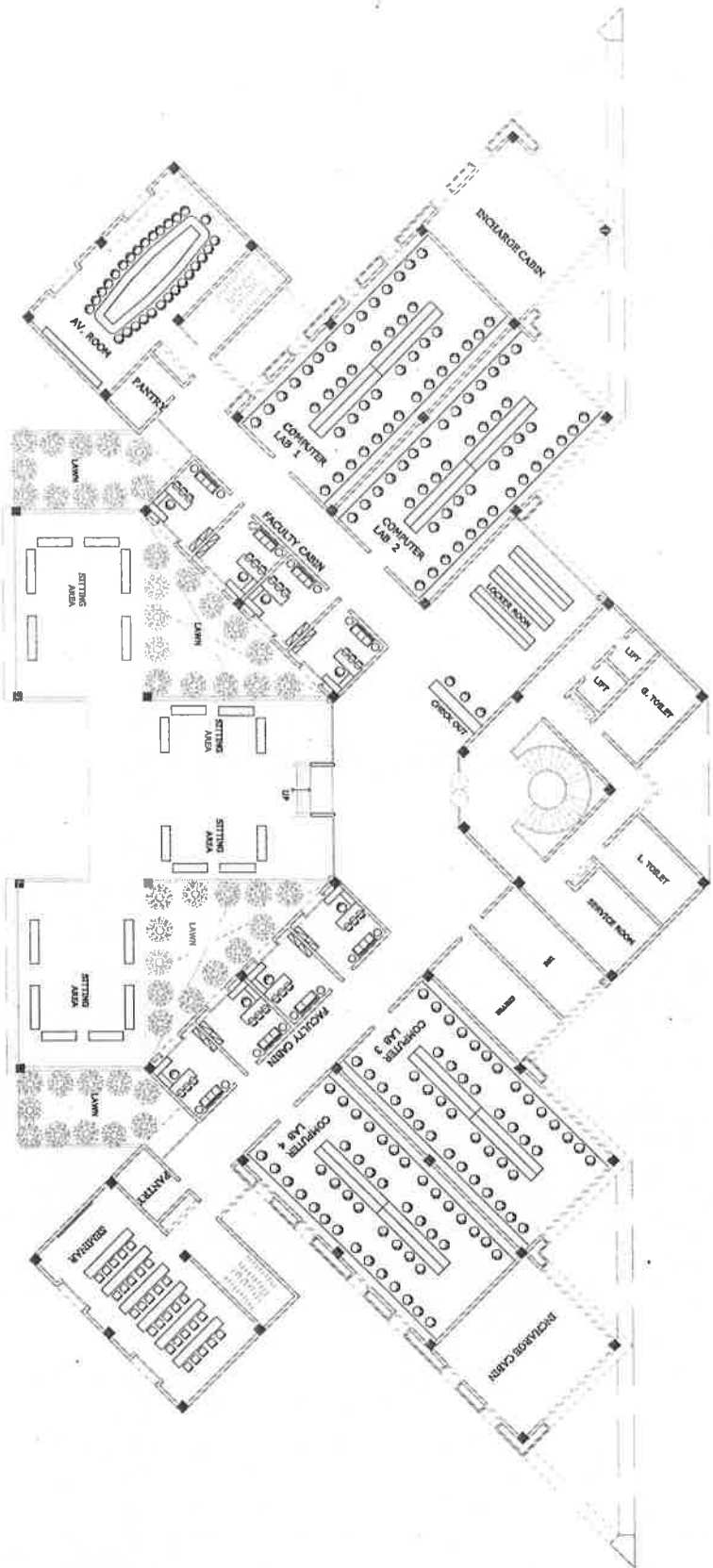
Client : PDPM Indian Institute of Information Technology Design and Manufacturing, IT Bhawan, JEC Campus, PO, Gokulpur, Ranjhi, Jabalpur.
 Architect: Datta and Datta Associates, 101, Sneh Shilp, 66, Swastik Society, B/h St. Xavier's Ladies Hostel, Navrangpura, Ahmedabad.
 Project: Proposed Library Building

PLINTH AREA ESTIMATE FOR PROPOSED LIBRARY CUM COMPUTER CENTER BUILDING

SR.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT	REMARKS
1	2 R.C.C. FRAMED STRUCTURE (G. F to S.F.)	3	4	5	6	
1.1	R.C.C. frames structure upto six storeys	SQ.MT.	8524.00	13200.00	112516800.00	
1.1.1	Floor height 3.35 mt.					
1.2	EXTRAS FOR					
1.2.3	Every 0.30 mt additional height of floor above normal floor height of 3.35 mt./2.90 mt. (Proposed Hight of floor - 3.65 Mts)	SQ.MT.	3001.00	150.00	450150.00	
	Ground Floor. 3001.00 x 1 = 3001					
	First Floor 2850.00 x 1 = 2850	SQ.MT.	2850.00	150.00	427500.00	
	Second Floor 2673.00 x 1 = 2673	SQ.MT.	2673.00	150.00	400950.00	
1.2.4	Every 0.30 mt higher plinth over normal plinth height of 0.60 mt (Proposed Plinth hight 0.90 mt ht.) (1 x 3001= 3001.00)	SQ.MT.	3001.00	150.00	450150.00	
1.2.5	Every 0.30 mt. deeper foundations over normal depth of 1.20 mtr (on G.F. area only) = 1.5 mtr = 1.50-1.2 = 0.3 X 2	SQ.MT.	6002.00	150.00	900300.00	
1.2.8	Resisting Earthquake forces	SQ.MT.	8524.00	630.00	5370120.00	
1.2.11	Stronger structural members to take heavy load above 500 Kgs./Sqm. Upto 1000 Kgs./Sqm.	SQ.MT.	25.00	850.00	21250.00	
1.2.12	Larger modules over 35 sqm.	SQ.MT.	3001.00	990.00	2970990.00	
	Ground Floor	SQ.MT.	2850.00	990.00	2821500.00	
	First Floor	SQ.MT.	2673.00	990.00	2646270.00	
	Second Floor					
1.4	FIRE FIGHTING					

SR.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT	REMARKS
	2	3	4	5	6	
1						
1.4.2	With wet riser system	SQ.MT.	8524.00	300.00	2557200.00	
1.5	FIRE ALARM SYSTEM					
1.5.2	Automatic Fire Alarm System	SQ.MT.	8524.00	300.00	2557200.00	
	TOTAL (A)				134090380.00	
3.0	SERVICES. (1.1.1. + 1.2.3 + 1.2.4 + 1.2.5)					
3.1	Internal water supply & sanitary installations	%	115145850.00	4%	4605834.00	
3.2	External service connections	%	115145850.00	5%	5757292.50	
3.3	Internal electric installations	%	115145850.00	12.50%	14393231.25	
3.6	Extra for :					
3.6.3.1	Upto 4 storeyed building	%	115145850.00	0.5%	575729.25	
3.6.4	Telephone conduits	%	115145850.00	0.5%	575729.25	
3.6.6	Computer conducting	%	115145850.00	0.5%	575729.25	
3.6.7	Quality assurance	%	115145850.00	1%	1151458.50	
	TOTAL (B)				27635004.00	
4.0	LIFTS					
4.2.1	13 person Passenger Lift with 1.0 M/Sec speed	No.	3.00	900000.00	2700000.00	
5.0	WATER TANK (RCC ONLY)					
5.1	R.C.C. Over head water tank without independent staging	Lit	15000.00	9.00	135000.00	
5.5	Under ground sump	Lit	22000.00	9.00	198000.00	
	500 Student @ 45 Litrs = 22,500 Litrs					

SR.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT	REMARKS
1	2	3	4	5	6	
6.0	DEVELOPMENT OF SITE					
6.1	Levelling (Plot area 2000Sqmt)	Sqm	2000.00	55.00	110000.00	
	Total (C)				3143000.00	
	GRAND TOTAL (A+B+C)				164868384.00	
7.0	Higher Specification For GREHA	%	164868384.00	15.00	24730257.60	
8.0	Cost Escalation(22% as per DSR Circulars)	%	164868384.00	22.00	36271044.48	
9.0	Architect Fees @ 5.612%	%	164868384.00	5.612	9252413.71	
10.0	Project Management @ 1.5%	%	164868384.00	1.5	2473025.76	
	GRAND TOTAL				237595125.55	



GROUND FLOOR PLAN
 BUILT UP AREA = 3001.00 SMT

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 1. ALL DIMENSIONS ARE IN METERS.
 2. ALL WORK SHALL BE AS PER TO BE AS SHOWN.
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REVNO	DATE	ISSUE	DESCRIPTION
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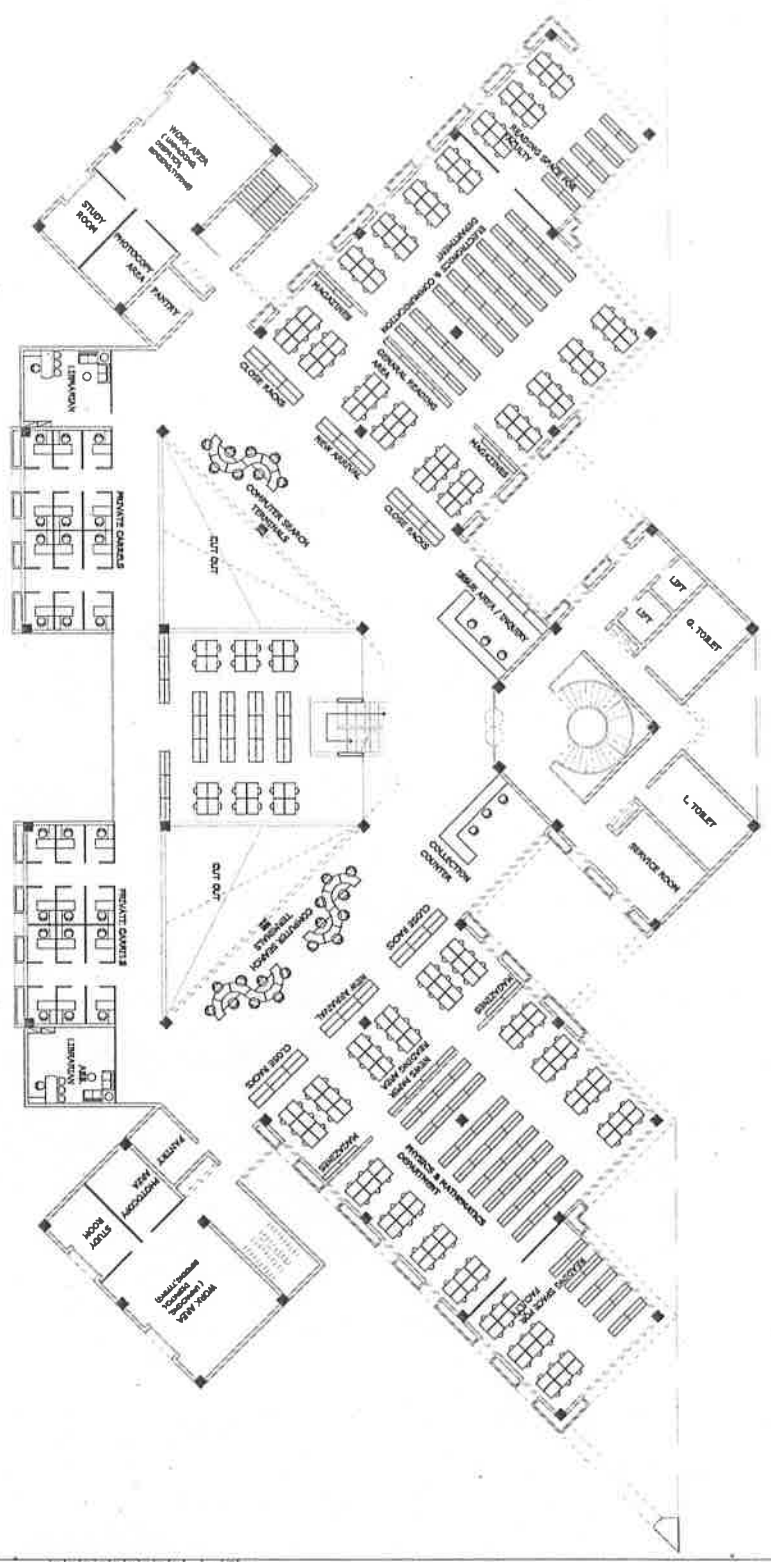
TITLE:
LIBRARY CUM COMPUTER CENTER

PROJECT:
PROPOSED CAMPUS FOR INDIAN INSTITUTE OF INFORMATION TECHNOLOGY DESIGN & MANUFACTURING AT JABALPUR

SCALE: N.T.S.
 DATE: 20-10-10
 IDEAL: NAMN
 CHECK: W-01

FILE:
DATTA AND DATTA ASSOCIATES
 ARCHITECTS, ENGINEERS, INTERIORS PLANNERS & PROJECT MANAGERS
 (B) SHREEJEE, 66, WINDING STREET, WARDHARA, RAIPUR - 492001
 PHONE: (0376) - 2540724, TELE FAX: (0376) - 2541242
 E-Mail: dattaanddatta@rediffmail.com, dattaanddatta@yahoo.com

FIRST FLOOR PLAN
BUILT UP AREA = 2850.00 SMT



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REVNO	DATE	ISS	REVISION
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TITLE:
LIBRARY CUM COMPUTER CENTER

PROJECT:
PROPOSED CAMPUS FOR INDIAN INSTITUTE OF INFORMATION TECHNOLOGY DESIGN & MANUFACTURING AT JABALPUR

SCALE: N.T.S.

DATE: 20-10-10

DESIGNER: NAMA

CHECKER: W-D2

FILE:

DATTA AND DATTA ASSOCIATES
ADVANCED ARCHITECT, ENGINEER, INTERIORS & INTERIOR DESIGNERS
41, Jyoti's 46, Sector 17, Gurgaon, Haryana - 122002
Phone: (011) - 2940726, 2940727, 2940728, 2940729, 2940730
E-Mail: datta@dattdatta.com, datta_architects@yahoo.com

Name of Work: - C/o Basket Ball Court (Indoor) for PDPM IIT D&M, Jabalpur (MP)

Fund :-

Major Head	Minor Head	Detailed Head
		Deposit Work

REPORT

History:- This Preliminary cum detailed estimate Framed by Datta and Datta Associates, Ahmedabad of the probable cost of Rs. 1,38,70,347/- (Rupees One crore Thirty Eight Lac seventy thousand three hundred forty seven only) including 22% cost Index, 3% contingencies, 1.5% Project Management and 5% Architect fees.

History:- This Preliminary cum detailed estimate amounting to Rs. 1,38,70,347/- including 22% cost Index, 3% contingencies, 1.5% Project Management and 5% Architect fees has been framed to meet the probable cost of the above work and for accord of Administrative Approval & Expenditure Sanction from the competent authority.

The requisition for the work has been communicated by the institute during the meeting dated 13-10-2010.

Design & Scope :- The preliminary cum detailed estimate has been framed based on the following architectural drawings, received from Director, PDPM IIT D&M, Jabalpur (MP) And developed by Architects Datta and Datta Associates on-behalf of PDPM IIT D&M, Jabalpur (MP).

Sr. No.	Drg. No.	Description
1	SA-W-01	Lower Ground & Ground Floor Plan
2	SA-W-02	Upper Ground Floor Plan

The estimate provides for construction of Basket Ball Court in Lower Ground, Ground Floor & Upper Ground Floor Construction. The building shall be RCC framed structure & Steel Structure. Load bearing capacity of soil formation is assumed at 180 Kn/m², yet to be determined.

The estimate for Basket Ball Court has been framed keeping in view the provision of specification and construction material shown in the drawings.

SPECIFICATION:

The work shall be carried out as per CPWD specification 2007 Vol I to II.

RATE :-

As per PAR 2007 with upto date correction slips duly enhanced by approved cost index of 122 for Jabalpur as on 01.07.09.

Cost :-

1,38,70,347/- including 22% cost Index, 3% contingencies, 1.5% Project Management and 5% Architect fees.

W.C. Estt:-

Shall be met out of contingencies, if required.

Datta & Datta Associates

LAND:- Available with client.

T & P:- No special T&P will be required.

METHOD:- By contract after call of tenders.

TIME:- 6 months

Client: PDPM Indian Institute of Information Technology Design and Manufacturing, Dumma Air Port Road, P.O. Khamariya, Jabalpur-482005

Architect: Datta and Datta Associates, 101, Sheh Shilp, 66, Sw astik Society, B/h St. Xavier's Ladies Hostel, Navrangpura, Ahmedabad.

Project Name: Construction of Basket Ball Court for PDPM IIDM at Jabalpur

SUMMARY OF DETAILED ESTIMATE

S. No.	DESCRIPTION	AMOUNT
1	CIVIL WORKS	8843645.75
2	PLUMBING WORKS	351596.10
3	ELECTRICAL WORKS (External Service Connection)	442182.29
4	ELECTRICAL WORKS (Internal Connections)	1105455.72
	TOTAL	10742879.86
	Cost Escalation (22% as per DSR Circulars)	2363433.568
	Architects Fees @ 5.612 %	602890.4175
	Project Management @ 1.5 %	161143.1978
	GRAND TOTAL	13870347.04

Client: PDPM Indian Institute of Information Technology Design and Manufacturing, Dumna Air Port Road, P.O. Khamariya, Jabalpur-482005

Architect: Datta and Datta Associates, 101, Sneh Shilp, 66, Sw astik Society, B/h St. Xavier's Ladies Hostel, Navrangpura, Ahmedabad.

Project Name: Construction of Basket Ball Court for PDPM IITDM at Jabalpur

SUMMARY OF CIVIL WORK

S. No.	DSR Item / Chapter no.	DESCRIPTION	AMOUNT
1	2	EARTH WORK	108705.70
2	4	CONCRETE WORK	68572.00
3	5	REINFORCED CEMENT CONCRETE	4585083.80
5	8	MARBLE WORK	906.00
6	9	WOOD WORK & PVC WORK	77005.90
7	10	STEEL WORK	1395439.20
8	11	FLOORING	151539.25
9	12	ROOFING	168533.75
10	13	FINISHING	357974.55
11	21	ALUMINIUM WORK	230768.10
12	22	WATER PROOFING	24252.50
		SUB TOTAL	7168780.75

Client: PDDPM Indian Institute of Information Technology Design and M anufacturing, Dumna Air Port Road, P.O. Khamariya, Jabalpur-482005

Architect: Datta and Datta Associates, 101, Sneh Shilp, 66, Sw astik Society, B/h St. Xavier's Ladies Hostel, Navrangpura, Ahmedabad.

Project Name: Construction of Basket Ball Court for PDDPM IITDM at Jabalpur

ESTIMATE FOR CIVIL WORKS (BASED ON C.P.W.D. DSR 2007)

S. No.	ITEM NO	DESCRIPTION	UNIT	Quantity	RATE	Amount (Rs.)
	2	EARTH WORK				
	2.7	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30cm in depth, 1.5m in width as well as 10 sqm on plan) including disposal of excavated earth, lead up to 50m and lift up to 1.5m, disposed earth to be levelled and neatly dressed.				
1.0	2.6.1	All kinds of soil	cum	731.00	101.85	74452.35
2.0	2.25	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift up to 1.5 m.	cum	703.00	45.70	32127.10
	2.26	Extra for every additional lift of 1.5 m or part thereof in.				
3.0	2.26.1	All kinds of soil. 1.5m to 3.0m	cum	112.50	18.90	2126.25
		Total of sub-head				108705.70
	4	CONCRETE WORK				
	4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level				
4.0	4.1.8	1:4:8 (1 Cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size).	cum	28.00	2449.00	68572.00
		Total of sub-head				68572.00
	5	REINFORCED CEMENT CONCRETE				
	5.9	Centering & shuttering including strutting, propping etc. and removal of form work for:				
5.0	5.9.1	Foundations, footings, bases of columns, etc. for mass concrete.	sqm	175.00	119.25	20868.75

S. No.	ITEM NO	DESCRIPTION	UNIT	Quantity	RATE	Amount (Rs.)
6.0	5.9.2	Walls (any thickness) including attached plasters, butteresses, plinth and string courses etc.	sqm	246.00	180.40	44378.40
7.0	5.9.3	Suspended floors, roofs, landings, balconies and access platform.	sqm	3580.00	187.35	670713.00
8.0	5.9.5	Lintels, beams, plinth beams, girders, bressumers and cantilevers.	sqm	49.00	162.65	7969.85
9.0	5.9.6	Columns, Pillars, Piers, Abutments, Posts and Struts .	sqm	576.00	238.40	137318.40
10.0	5.9.7	Stairs, (excluding landing) except spiral-staircases.	sqm	62.00	204.00	12648.00
	5.9.16	Edges of slabs and breaks in floors and walls.				
10.0	5.9.16.1	Under 20 cms wide	sqm	39.00	61.10	2382.90
	5.22	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete up to Plinth Level.				
12.0	5.22.6	Thermo-Mechanically Treated bars.	kilogram	33210.00	42.70	1418067.00
13.0	5.33	Providing and laying in position machine batched, machine mixed and machine vibrated design mix concrete of specified grade for reinforced cement concrete work including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement. including Admixtures in recommended proportions as per IS 9103 to accelerate, retard setting of concrete. improve workability without impairing strength and durability as per direction of Engineer-in-charge. M-25 grade reinforced cement concrete by using 380 kg. of cement per cum of concrete. All work upto plinth level.	cum	47.00	3983.75	187236.25
14.0	5.33 A	Providing and laying in position machine batched, machine mixed and machine vibrated design mix cement concrete of specified grade for reinforced cement concrete work including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement. including Admixtures in recommended proportions as per IS 9103 to accelerate, retard setting of concrete. improve workability without impairing strength and durability as per direction of Engineer-in-charge. M-25 grade reinforced cement concrete by using 380 kg. of cement per cum of concrete. All work above plinth level up to floor V level.	cum	523.00	3983.75	2083501.25
Total of sub-head						4585083.80

S. No.	ITEM NO	DESCRIPTION	UNIT	Quantity	RATE	Amount (Rs.)
15.0	8.5	MARBLE WORK Extra for providing opening of required size & shape for wash basins/kitchen sink in kitchen platform, vanity counters and similar location in marble/Granite/stone work including necessary holes for pillar taps etc. including rubbing and polishing of cut edges etc. complete.	each	6.00	151.00	906.00
		Total of sub-head				906.00
	9	WOOD WORK & PVC WORK				
	9.20	Providing and fixing ISI marked flush door shutters conforming to IS: 2202 (Part I) decorative type, core of block board construction with frame of 1st class hard wood and well matched teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters.	sqm	20.00	1473.50	29470.00
	9.20.1	35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws.				
	9.48	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. all complete.				
	9.48.1	Fixed to steel windows by welding.	Kg	35.00	59.25	2073.75
	9.76	Providing and fixing bright finished brass 100mm mortice latch and lock with 6 levers and a pair of lever handles with necessary screws etc complete (best make of approved quality).	Each	22.00	332.65	7318.30
	9.83	Providing and fixing IS : 3564 marked Aluminium die cast body tubular type universal hydraulic door closer with necessary accessories and screw etc. complete.	Each	24.00	610.60	14654.40
	9.96	Providing and fixing aluminium sliding door bolts ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade with nuts and screws etc. complete :	Each	22.00	134.10	2950.20
	9.96.2	250x16 mm				
	9.97	Providing and fixing aluminium tower bolts ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade with necessary screws etc. complete:	Each	44.00	71.45	3143.80
	9.97.1	300X10mm				
	9.97.3	200x10mm	Each	76.00	52.00	3952.00

S. No.	ITEM NO	DESCRIPTION	UNIT	Quantity	RATE	Amount (Rs.)
	9.100	Providing and fixing aluminium handles ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade with necessary screws etc. complete.				
23.0	9.100.1	125mm	Each	44.00	48.80	2147.20
24.0	9.100.2	100mm	Each	76.00	35.30	2682.80
	9.101	Providing and fixing aluminium hanging floor door stopper ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour and shade with necessary screws etc. complete.				
25.0	9.101.2	Twin rubber stopper	Each	9.00	53.90	485.10
26.0	9.102	Providing and fixing aluminium casement stays ISI marked anodised (anodic coating not less than grade AC 10 as per IS: 1868) transparent or dyed to required colour and shade with necessary screws etc. complete.	Each	15.00	47.55	713.25
27.0	9.119	Providing and fixing factory made P.V.C. door frame of size 50x47mm with a wall thickness of 5mm, made out of extruded 5mm rigid PVC foam sheet mitred at corners and joined with 2 Nos. of 150mm long brackets of 15x15mm M.S. square tube, the vertical door profiles to be reinforced with 19x19mm M.S. square tube of 19 gauge. EPDM rubber gasket weather seal to be provided through out the frame. The door frame to be fixed to the wall using M.S. screws of 65/100mm size complete as per manufacturers specification and direction of Engineer-in-Charge	Metre	21.00	353.10	7415.10
		Total of sub-head				77005.90
	10	STEEL WORK				
30.0	10.25	Steel work welded in built up sections / framed work including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc.as required.				
	10.25.2	In gratings, frames, guard bar, ladders, railings, brackets, gates & similar works.	Kg	27000.00	51.20	1382400.00

S. No.	ITEM NO	DESCRIPTION	UNIT	Quantity	RATE	Amount (Rs.)
31.0	10.14	Providing and fixing pressed steel door frames conforming to IS: 4351 manufactured from commercial mild steel sheet of 1.25 mm thickness including hinges jamb, lock jamb, bead and if required angle threshold of mild steel angle of section 50x25mm, or base ties of 1.25mm pressed mild steel welded or rigidly fixed together by mechanical means, adjustable lugs with split end tail to each jamb including steel butt hinges 2.5mm thick with mortar guards, lock strike-plate and shock absorbers as specified and applying a coat of approved steel primer after pre-treatment of the surface as directed by Engineer-in-charge :				
	10.14.2	Profile C	metre	48	271.65	13039.20
		Total of sub-head				1395439.20
	11	FLOORING				
32.0	11.3	Cement concrete flooring 1:2:4 (1 cement: 2 coarse sand: 4 graded stone aggregate) finished with a floating coat of neat cement including cement slurry, but excluding the cost of nosing of steps etc. complete.				
a)	11.3.1	40mm thick with 20mm nominal size stone aggregate.	sqm	358.00	192.95	69076.10
33.0	11.36	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS : 15622 (thickness to be specified by manufacturer) of approved make in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge in skirting, risers of steps and dados over 12 mm thick bed of Cement Mortar 1:3 (1 Cement : 3 Coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm including pointing in white cement mixed with pigment of matching shade complete.	sqm	89.00	556.60	49537.40
34.0	11.37	Providing and laying Ceramic glazed floor tiles 300x300 mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS : 15622 of approved make in colours such as White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick Cement Mortar 1:4 (1 Cement: 4 Coarse sand) including pointing the joints with white cement and matching pigment etc., complete.	sqm	55.00	598.65	32925.75
		Total of sub-head				151539.25
		ROOFING WORK				

S. No.	ITEM NO	DESCRIPTION	UNIT	Quantity	RATE	Amount (Rs.)
34A	12.1	Providing corrugated G.S. sheet roofing including vertical / curved surface fixed with polymer coated J or L hooks, bolts and nuts 8 mm diameter with bitumen and G.I. limpet washers or with G.I. limpet washers filled with white lead and including a coat of approved steel primer and two coats of approved paint on overlapping of sheets complete (upto any pitch in horizontal / vertical or curved surfaces) excluding the cost of purfins, rafters and trusses and including cutting 1.00mm thick with zinc coating not less than 275gm/m ²	sqm	275	612.85	168533.75
		Total of sub-head				168533.75
	13	FINISHING				
	13.1	12 mm cement plaster of mix:	sqm			
35.0	13.1.2	1:6 (1 cement: 6 fine sand)	sqm	3108.00	67.65	210256.20
36.0	13.1.1	18 mm cement plaster in two coats under layer 12 mm thick cement plaster 1:5 (1 cement: 5 coarse sand) finished with a top layer 6mm thick cement plaster 1:6 (1 cement: 6 fine sand).	sqm	1329.00	111.15	147718.35
		Total of sub-head				357974.55
	21	ALUMINIUM WORK				
	21.1	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections / appropriate Z sections and other sections of approved make conforming to IS:733 and IS:1285, fixed with rawl plug and screws or with fixing clips, or with expansion hold fasteners including necessary filling up of gaps at junctions, at top, bottom and sides with required EPDM rubber / Neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mited and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / panelling, C.P. brass / Stainless Steel screws, all complete as per architectural drawings and the directions of Engineer-In-Charge. (Glazing and panelling to be paid for separately).				
	21.1.1	For Fixed Portion.				
38.0	21.1.1.1	Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC15	Kg	450.00	290.45	130702.50
	21.1.2	For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of approved fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately).				
39.0	21.1.2.1	Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC15	Kg	300.00	310.45	93135.00

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S. No.	ITEM NO	DESCRIPTION	UNIT	Quantity	RATE	Amount (Rs.)
	21.4	Providing and fixing double action hydraulic floor spring of approved brand and manufacture IS : 6315 marked, for doors including cost of cutting floors as required, embedding in floors and cover plates with brass pivot and single piece M.S. sheet outer box with slide plate etc. complete as per the direction of Engineer-in-charge.				
40.0	21.4.1	With stainless steel cover plate	each	4.00	1732.65	6930.60
		Total of sub-head				230768.10
	22	WATER PROOFING				
41.0	22.3	Providing and laying water proofing treatment to vertical and horizontal surfaces of depressed portions of W.C., kitchen and the like consisting of : i) 1st course of applying cement slurry @ 4.4 Kg/sqm mixed with water proofing compound conforming to IS 2645 in recommended proportions including rounding off junction of vertical and horizontal surface. ii) 1/2nd course of 20mm cement plaster 1:3 (1 cement: 3 coarse sand) mixed with water proofing compound in recommended proportion including rounding off junction of vertical and horizontal surface. iii) 1/3rd course of applying blown or residual bitumen applied hot at 1.7 Kg. per sqm of area. iv) 1/4th course of 400 micron thick PVC sheet. (Overlaps at joints of PVC sheet should be 100 mm wide and pasted to each other with bitumen @ 1.7 Kg/s qm.)	sqm	89.00	272.50	24252.50
		Total of sub-head				24252.50
		NON SCHEDULE ITEMS				
43.0	NS	Granite stone flooring with 18 mm thick granite stone, flooring in Treads, Landing, rectangular shape, (minimum size of stone should be 0.45 sqm and one dimension not less than 700 mm), over 20 mm (average) thick base of cement mortar 1:4 (1 cement : 4 coarse sand) laid and jointed with grey cement slurry including rubbing and polishing complete.	sqm	8.00	3767.00	30136.00
44.0	NS	18mm thick Prepolished Granite Flooring Risers and skirting (upto 30 cm height) over 12mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointed with grey cement including pointing with white cement mixed with pigment matching the shade of granite stone all complete and as directed.	sqm	29.00	3741.00	108489.00

S. No.	ITEM NO	DESCRIPTION	UNIT	Quantity	RATE	Amount (Rs.)
46.0	NS	Brick work with F.P.S. bricks of class designation 30 in superstructure above plinth level up to floor V in all shapes and sizes in Cement mortar 1:6 (1 cement : 6 coarse sand) complete in all respects as per drawings /specifications and to the entire satisfaction of the Engineer In Charge.	cum	519.00	2960.00	1536240.00
		Total of sub-head				1674865.00

Client: PDDPM Indian Institute of Information Technology Design and Manufacturing, Dumna Air Port Road, P.O. Khamariya, Jabalpur-482005
 Architect: Datta and Datta Associates, 101, Sneh Shilp, 66, Swastik Society, B/h St. Xavier's Ladies Hostel, Navrangpura, Ahmedabad.

Project Name: Construction of Basket Ball Court for PDDPM IITDM at Jabalpur

ESTIMATE FOR SANITARY PLUMBING WORKS (DSR ITEMS)

Item No	Ref. No.	Description Of Item	Unit	Qty.	DSR 07 Rate	Amount DSR
EARTH WORK						
1.00	2.6.1	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30cm in depth, 1.5m in width as well as 10 sqm on plan) Including disposal of excavated earth, lead up to 50m and lift up to 1.5m, disposed earth to be levelled and neatly dressed.	Cum	15.00	101.85	1527.75
2.00	2.10	Excavating trenches of required width for pipes, cables, etc including excavation for sockets, and dressing of sides, ramming of bottoms, depth up to 1.5 m including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20 cm in depth including consolidating each deposited layer by ramming, watering, etc. and disposing of surplus excavated soil as directed, within a lead of 50 m.				
	2.10.1	All kinds of soil				
3.00	2.10.1.2	Pipes, cables etc, exceeding 80 mm dia but not exceeding 300 mm dia	Metre	75.00	115.05	8628.75
4.00	2.25	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift up to 1.5 m.	Cum	10.00	45.70	457.00
Total						10613.5
SANITARY FIXTURES						
Providing & Fixing water closet squatting pan (Indian W.C. pan) with 100 mm sand cast iron P or S trap, 10 litre low level white P.V.C. flushing cistern with manually controlled device (handle lever) conforming to IS: 7231 with all fittings & fixture complete including cutting and making good the walls & floors wherever required						
5.00	17.3.2	White vitreous china pattern W.C. pan of size 580 x 440 mm with integral type foot rests	Each	8.00	2304.65	18437.20

Item No	Ref. No.	Description Of Item	Unit	Qty.	DSR 07 Rate	Amount DSR
6.00	17.4.3	Providing and fixing white vitreous China flat back or wall corner type lipped front urinal basin of 430X260X350 mm and 340X410X265 mm sizes respectively with automatic flushing cistern with standard flush pipe and C.P. brass spreaders with brass unions and G.I. clamps complete, including painting or fittings and brackets, cutting and making good the walls and floors wherever required.	Each	16.00	4491.60	71865.60
		Range of three urinal basin with 10 litre white PVC automatic flushing cistern.				
	17.7	Providing and fixing wash basin with C.I. brackets, 15mm C.P. brass pillar taps, 32mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever required.				
7.00	17.7.3	White vitreous china wash basin size 550x 400 mm with a pair of 15mm C.P. brass pillar tap.	Each	8.00	1176.10	9408.80
		Providing and fixing Stainless Steel A ISI 304 (18/8) Kitchen sink as per IS 13983 with C.I. brackets and stainless steel plug 40 mm including painting of fittings and brackets, cutting and making good the walls wherever required :				
8.00	17.29	Providing and fixing 100 mm sand cast grating for gully trap	Each	8.00	16.45	131.60
	17.32	Providing and fixing superior glass (of approved quality) and of required shape and size with plastic moulded frame of approved make and shape with 6 mm thick hard board backing.				
9.00	17.32.2	Rectangular shape 453x357 mm	Each	8.00	465.10	3720.80
10.00	17.33	Providing and fixing 600x120x5 mm glass shelf with edges round of supported and anodised aluminium angle frame with C.P. brass brackets and guard rail complete fixed with 40 mm long screws, rawl plugs etc. complete.	Each	8.00	218.80	1750.40
	17.34	Providing and fixing toilet paper holder .				
11.00	17.34.2	Vitreous china	Each	8.00	173.00	1384.00
12.00	17.71	Providing and fixing PTMT liquid soap container 109 mm wide, 125 mm high and 112 mm distance from wall of standard shape with bracket of the same materials with snap fittings of approved quality and colour weighing not less than 105 gms.	Each	4.00	164.85	658.60
SUB TOTAL						107357.00

Item No	Ref. No.	Description Of Item	Unit	Qty.	DSR 07 Rate	Amount DSR
		SOIL, WASTE AND VENT PIPES				
		Providing and fixing soil, waste and vent pipes 100 mm dia.				
13.00	17.35.1.2	Centrifugally cast (spun) iron socketed pipe as per IS:3989	Metre	150.00	730.40	109560.00
	17.37	Providing and fixing M.S holder-bat clamps of approved design to Sand Cast iron/ cast iron (spun) pipe embedded in and including cement concrete blocks 10x10x10 cm of 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) including cost of cutting holes and making good the walls etc.				
14.00	17.37.1	for 100 mm dia. pipe	Each	10.00	65.35	653.50
		Providing and fixing plain bend of required degree. 100 mm				
15.00	17.39.1.2	Sand cast iron S&S as per IS:3989	Each	8.00	236.40	1891.20
		Providing and fixing heel rest sanitary bend. 100 mm dia				
16.00	17.40.1.2	sand cast iron S&S as per IS-3989	Each	8.00	286.35	2290.80
		Providing and fixing single equal plain junction of required degree 100x100x100mm				
17.00	17.44.1.2	sand cast iron S&S as per IS-3989	Each	8.00	442.00	3536.00
		Providing and fixing terminal guard. 100 mm				
18.00	17.56.1.2	sand cast iron S&S as per IS-3989	Each	8.00	194.60	1556.80
		Providing and fixing collar 100 mm				
19.00	17.57.1.2	Sand cast iron S&S as per IS-3989	Each	8.00	202.70	1621.60
		Providing and fixing M.S. stays and clamps for sand cast iron / centrifugally cast (spun) iron pipes of diameter : 100 mm				
20.00	17.59.1		Each	8.00	48.25	386.00

Item No	Ref. No.	Description Of Item	Unit	Qty.	DSR 07 Rate	Amount DSR
21.00	17.60.1.1	Providing and fixing trap of self cleansing with screwed down or hinged grating with or without vent arm complete, including cost of cutting and making good the walls and floors: 100 mm Inlet and 100 mm outlet Sand cast iron S&S as per IS-3989	Each	8.00	573.35	4586.80
		SUB TOTAL				126082.70
WATER SUPPLY						
22.00	18.7.1	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings including fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and testing of joints complete as per direction of Engineer in Charge. (Internal work-Exposed on wall)	Metre	37.00	97.95	3624.15
23.00	18.7.3	15 mm nominal outer dia. Pipes.	Metre	55.00	150.40	8272.00
24.00	18.7.5	25 mm nominal outer dia. Pipes. 40 mm nominal outer dia. Pipes.	Metre	95.00	275.05	26129.75
		Providing and fixing G.I. pipes complete with G.I. fittings including trenching and refilling etc. External Work				
25.00	18.12.3	25 mm dia. nominal bore	Metre	15.00	156.85	2352.75
26.00	18.12.6	50 mm dia. nominal bore	Metre	6.00	280.10	1680.60
27.00	18.12.7	65 mm dia. nominal bore	Metre	6.00	365.15	2190.90
	18.13	Making connection of G.I./ CPVC distribution branch with G.I. main of following sizes by providing and fixing tee, including, cutting and threading the pipe etc. complete including obtaining approval for connection from DJB/Municipal corporation				
28.00	18.13.2	50 to 80 mm nominal bore (SDR-11)	Each	2.00	423.20	846.40
		Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete:				
29.00	18.18.3	25 mm nominal bore	Each	4.00	385.90	1543.60
		Providing and fixing gun metal non-return valve of approved quality (screwed end)				
30.00	18.19.5	65 mm nominal bore	Each	2.00	1282.10	2564.20
	18.19.5.1	Horizontal				

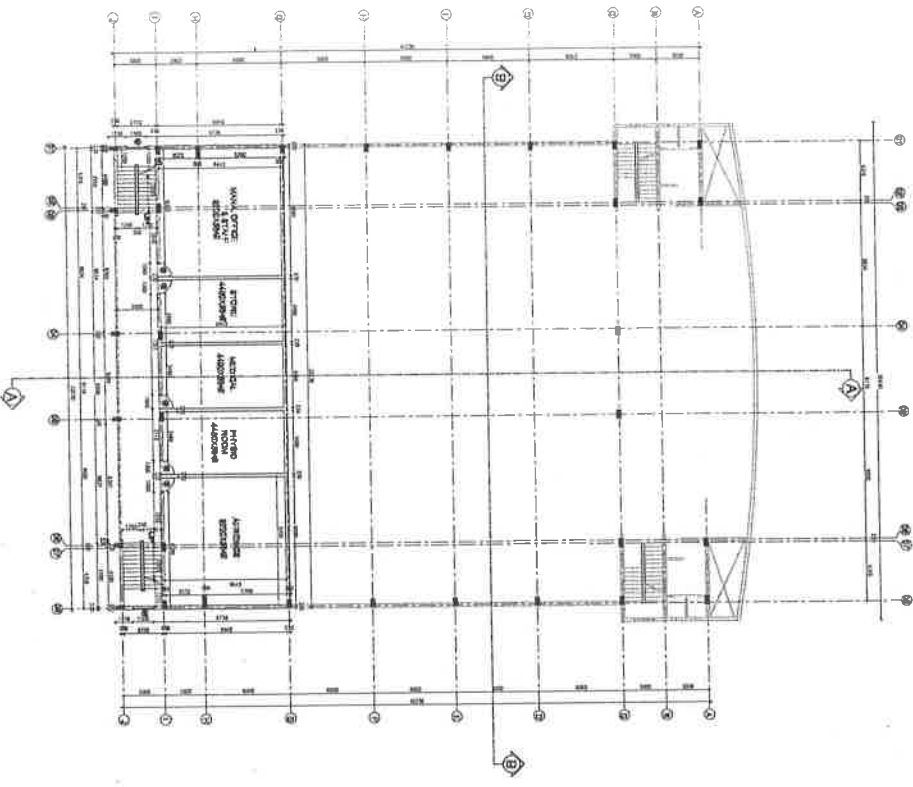
Item No	Ref. No.	Description Of Item	Unit	Qty.	DSR 07 Rate	Amount DSR
31.00	18.20.3	Providing and fixing brass ferrule with C.I. mouth cover including boring and tapping the main 25 mm nominal bore	Each	8.00	243.70	1949.60
32.00	18.21.2.1	Providing and fixing unplasticised PVC connection pipe with brass unions: 45 cm length 15 mm nominal bore	Each	8.00	44.75	358.00
33.00	18.33.1	Constructing masonry chamber 60X60X75 cm, inside with 75 class designation brick work in cement mortar 1:4 (1 cement: 4 coarse sand) for sluice valve, with C.I. surface box 100mm top diameter, 160 mm bottom diameter and 180 mm deep (inside) with chained lid and RCC top slab 1:2:4 mix (1 cement: 2 coarse sand:4 graded stone aggregate 20 mm nominal size) necessary excavation foundation concrete 1.5:10 (1 cement:5 fine sand: 10 graded stone aggregate 40 mm nominal size) and inside plastering with cement mortar 1:3 (1 cement :3 coarse sand) 12 mm thick finished with a floating coat of neat cement complete as per standard design With F.P.s bricks	Each	1.00	3595.30	3595.30
34.00	18.47	Providing and fixing G.I. Union in existing G.I. pipe line, cutting and threading the pipe and making long screws including excavation, refilling the earth or cutting of wall and making good the same complete wherever required.	Each	4.00	170.10	680.40
35.00	18.47.2	20 mm nominal bore	Each	4.00	528.30	2113.20
36.00	18.47.7	65 mm nominal bore	Each	4.00	607.30	2429.20
37.00	18.47.8	80 mm nominal bore	Each	8.00	207.00	1656.00
38.00	18.51	Providing and fixing C.P. brass bib cock of approved quality. 15 mm nominal bore	Each	12.00	253.95	3047.40
39.00	18.51.1	Providing and fixing C.P. brass long body bib cock of approved quality conforming to 18 standards and weighing not less than 690 gms. 15 mm nominal bore	Each	8.00	262.55	2100.40
	18.52.1	Providing and fixing C.P. brass stop cock (concealed) of standard design and of approved make conforming to IS:8931 15 mm nominal bore	Each	8.00	262.55	2100.40

Item No	Ref. No.	Description Of Item	Unit	Qty.	DSR 07 Rate	Amount DSR
40.00	18.53.1	Providing and fixing C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931. 15 mm nominal bore	Each	8.00	347.65	2781.20
41.00	18.59.1	Providing and fixing C.I. double acting air valve of approved quality with bolts, nuts, rubber insertions etc. complete (The tail pieces, tapers etc. if required will be paid separately). 50 mm dia	Each	1.00	3615.70	3615.70
42.00	18.60.1	Providing and fixing enclosed type water meter (bulk type) conforming to IS : 2373 and tested by Municipal Board complete with bolts, nuts, rubber insertions etc. (The tail pieces if required will be paid separately) : 80 mm dia nominal bore	Each	1.00	2448.40	2448.40
43.00	18.62.5	Providing and fixing PTMT ball cock of approved quality, colour and make complete with Epoxy coated aluminium rod with L.P./H.P.H.D. plastic ball. 50 mm nominal bore, 242 mm long weighin not less than 1240 gms	Each	8.00	1338.30	10706.40
44.00	18.77	Cutting holes up to 15x15 cm in R.C.C. floors and roofs for passing drain pipe etc. and repairing the hole after insertion of drain pipe etc. with cement concrete 1:2:4 (1 cement:2 coarse sand: 4 graded stone aggregate 20 mm nominal size) including finishing complete so as to make it leak proof	Each	10.00	82.50	825.00
SUB TOTAL						87510.55
SEWORAGE & DRAINAGE						
45.00	19.1.1	Providing laying and jointing glazed stoneware pipes grade 'A' with stiff mixture of cement mortar in the pro-portion of 1:1 (1 cement : 1 fine sand) including testing of joints etc. complete. 100 mm diameter	Metre	10.00	105.90	1059.00
46.00	19.4.1.1	Providing and fixing square-mouth S.W. gully trap grade 'A' complete with C.I. grating, brick masonry chamber with water tight C.I. cover with frame of 300x300 mm size (inside) the weight of cover to be not less than 4.50 kg and frame to be not less than 2.70 kg as per standard design. 150x100mm size P type F.P.S. Bricks class designation 75	Each	8.00	961.95	7695.60

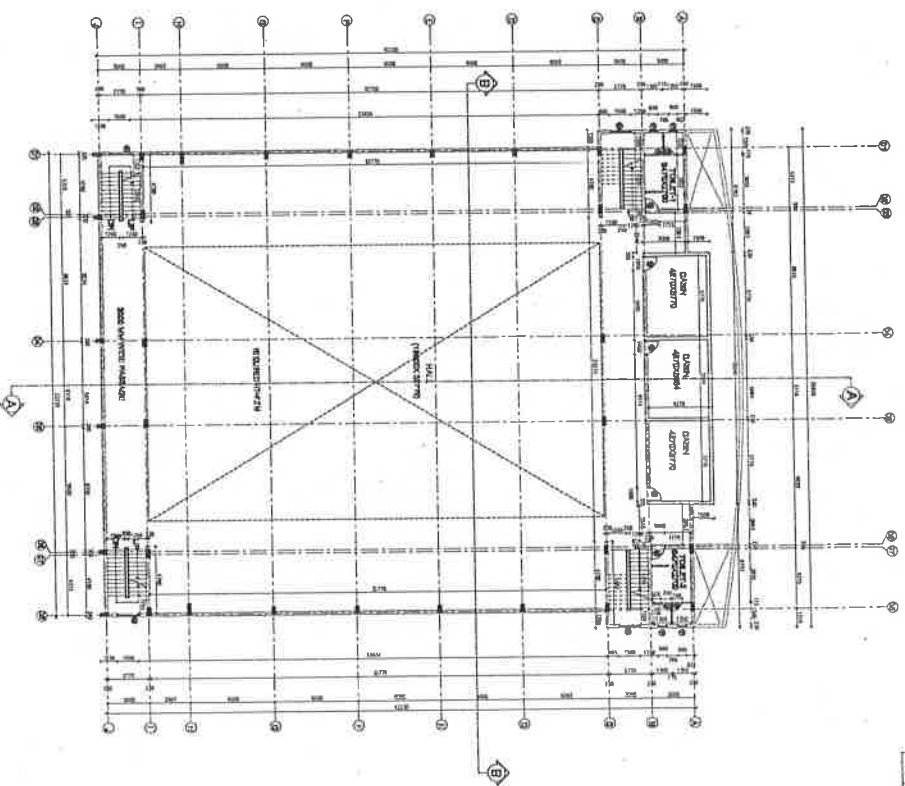
Item No	Ref. No.	Description Of Item	Unit	Qty.	DSR 07 Rate	Amount DSR
		Constructing brick masonry manhole in cement mortar 1:4 (1 cement : 4 coarse sand), R.C.C. top slab with 1:2:4 mix (1cement : 2 coarse sand : 4graded stone aggregate 20 mm nominal size), foundation concrete 1:4:8 (1cement : 4 coarse sand : 8graded stone aggregate 40 mm nominal size), inside plastering 12mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement, and making necessary channels in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) finished with a floating coat of neat cement all complete as per standard design.				
		Extra depth for manholes				
	19.8.1	Size 90 x 80 cm				
47.00	19.8.1.1	With F.P.S. bricks class designation 75	Metre	1.00	2654.00	2654.00
	19.12	Extra depth for circular type manhole 1.22 m internal dia (at bottom) with beyond 1.68 m to 2.29 m				
48.00	19.12.1	With F.P.S. bricks with class designation 75	Metre	1.00	2954.75	2954.75
		Making connection of drain or sewer line with existing manhole including breaking into and making good the walls, floors with cement concrete 1:2:4 mix (1 cement:2 coarse sand:4 graded stone aggregate 20 mm nominal size) cement plastered on both sides with cement mortar 1:3 (1 cement:3 coarse sand) finished with a floating coat of neat cement and making necessary channels for the drain etc. complete (including obtaining approval from DUB/Municipal corporation				
49.00	19.21.1	For pipes 100 to 230 mm dia	Each	1.00	164.30	164.30
	19.22	Providing sand cast iron drop connection externally for 60 cm drop from branch sewer line to main sewer manhole including inspection and cleaning eye with chain and lid sand cast iron drop pipe and bend encased all-round with cement concrete 1:5:10 (1 cement:5 fine sand: 10 graded stone aggregate 40 mm nominal size) with all centering and shuttering required, cutting holes in walls and making good with brick work in cement mortar 1:4 (1 cement: 4 coarse sand) plastered with cement mortar 1:3 (1 cement: 3 coarse sand) on, inside of the manhole wall lead caulked joints between sand cast iron pipes and fittings, stiff cement mortar 1:1 (1 cement: 1 fine sand) joints between sand cast iron tee and S.W. pipe, making required channels complete as per standard design and specifications:				

Item No	Ref. No.	Description Of Item	Unit	Qty.	DSR 07 Rate	Amount DSR
50.00	19.22.2	150 mm dia. sand cast iron drop connection	Each	1.00	5152.95	5152.95
	19.34	Providing and fixing S.W./intercepting trap in manholes with stiff mixture of cement mortar 1:1 (1 cement: 1 fine sand) including testing of joints etc. complete				
51.00	19.34.2	150 mm dia	Each	1.00	281.55	281.55
		SUB TOTAL				19962.15
		RAIN WATER PIPING				
52	12.44	Providing and fixing to the inlet mouth of rain water pipe cast iron grating 15 cm diameter and weighing not less than 440 grams	Each	3.00	23.40	70.20
		SUB TOTAL				70.20
		TOTAL COST FOR SANITARY PLUMBING WORKS (DSR ITEMS)				351596.10

LOWER GROUND FLOOR PLAN



GROUND FLOOR PLAN



SCHEDULE OF OPENINGS			
TYPE	SIZE	NO.	AREA
D1	3.42 x 2.24	51	38.12
D2	1.00 x 2.10	13	2.10
D3	0.75 x 2.10	04	1.58
D4	3.00 x 1.18	04	3.55
D5	2.42 x 1.18	18	2.85
D6	1.00 x 1.18	03	1.18
D7	1.00 x 1.18	03	1.18
D8	2.00 x 1.18	02	2.36

AS SHOWN IN THE DRAWINGS OF THE ARCHITECTURAL DRAWINGS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROVISION OF ALL MATERIALS AND LABOUR FOR THE CONSTRUCTION OF THE WORKS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROVISION OF ALL MATERIALS AND LABOUR FOR THE CONSTRUCTION OF THE WORKS.

NO.	DATE	DESCRIPTION
1	11-10-10	PRELIMINARY DESIGN
2	11-10-10	FINAL DESIGN
3	11-10-10	CONSTRUCTION
4	11-10-10	COMPLETION

PROJECT:
PROPOSED CAMPUS FOR INDIAN
INSTITUTE OF INFORMATION TECHNOLOGY
DESIGN & MANUFACTURING AT JAWAHAR
NAGAR, PUNE

CLIENT: IIT BOMBAY

DATE: 23-10-10

SCALE: 1:100

DRAWN BY: SA-M/01

CHECKED BY: SA-M/01

DATE: 23-10-10

TITLE:
BASKETBALL COURT

PROJECT:
PROPOSED CAMPUS FOR INDIAN
INSTITUTE OF INFORMATION TECHNOLOGY
DESIGN & MANUFACTURING AT JAWAHAR
NAGAR, PUNE

CLIENT: IIT BOMBAY

DATE: 23-10-10

SCALE: 1:100

DRAWN BY: SA-M/01

CHECKED BY: SA-M/01

DATE: 23-10-10

DATA AND DATTASSOCIA
ARCHITECTS
111, JAWAHAR NAGAR, PUNE
PUNE - 411005
TEL: 020-25611111
WWW.DATTASSOCIA.COM

Revised Preliminary Estimate

Name of work:- Hall of Residence-I

This revised Preliminary Estimate has been framed by M/s. Kanvinde Rai & Chowdhury of Architectural and Structural Consultants for the probable cost of Rs. 1473 Lacs (Rupees One thousand four hundred and seventy three Lacs only) including contingencies.

REPORT

HISTORY :- This revised preliminary estimate amounting to Rs. 1473 lacs including 5 lacs contingencies has been framed for revised administrative approval and expenditure sanction by the competent authority for the above mentioned work.

The administrative approval and expenditure sanction for the work amounting Rs. 1192 lacs had been accorded by the Board of Governors PDPM-IITDM Jabalpur during its meeting did August-04/2006 Because of cost enhancement during the Construction period with a stipulated date of completion as ten months the revised preliminary estimate has been prepared considering the approved cost index of 260 as on 01.10.07 over the DPAR 92 as 100.

DESIGN & SCOPE:- The design of the proposed building has the following features:

- 1) Hostel is designed for 408 student capacity.
- 2) One complete Hostel comprises six cluster of residential rooms and common facilities like Administrative office, recreation room/ canteen/kitchen, meeting room, library, lounge/TV room.
- 3) The residential blocks are four storied and Administrative block and common rooms are two storied RCC framed structure.
- 4) All rooms are single seated and have a carpet area of about 10.5 sqm including the cup board.
- 5) Each wing of the residential cluster has a covered cycle parking area of about 70 sqm. Close to the staircase.
- 6) A utility verandah for the activities like drying clothes has been provided at all floors of each wing of residential cluster.
- 7) Common toilet block consisting of 3 nos. WC, 3 nos. bathroom, 3 washbasins and 2 urinals has been provided at each floor. Average use of each of the above facility is designed for 7 to 8 residents.
- 8) All the residential clusters and common facilities are connected by link corridors.
- 9) It is proposed to have energy efficiency measures to reduce the ingress of heat by providing all external walls as cavity walls and hollow clay tiles at room in the residential wings of hostel.
- 10) The toilets shall be provided with solar panels for hot water.
- 11) The building shall be designed for earthquake resistant parameters.





Kanvande Rai & Chowdhury (Architect)

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MODE:- On contract through call of competitive Tenders.

PERIOD OF CONSTRUCTION:- Total Ten months.

Delhi plinth area rates 1992 enhanced by cost index 260 as applicable on 1.10.07 over the DPAR 92 as 100. Items not available in the DPAR have been analyzed on DSR 2002 enhanced by 23.49% prevalent cost index and market rates.

RATES:-

- 1) Designed reinforced cement concrete for structural works.
- 2) All in fill walls shall be either brick or cement concrete hollow blocks.
- 3) Flooring.
- a) Pre-cast terrazzo tile flooring in rooms.
- b) Kota stone with a band of jaisalmer in link corridors.
- c) Kota stone in stair cases, kitchen and common rooms.
- d) Anti skid ceramic tiles in toilets.
- e) Vitrified tiles in dining hall.
- f) Cement concrete in cycle stands.
- 4) Glazed tile upto 2.10 meter in the toilet blocks, upto sill height in Dining hall.
- 5) Wash basins in the toilets shall be provided on a granite counter.
- 6) Cement based integral water proofing treatment over the hollow clay tiles.
- 7) 35 mm. thick flush door shutters with synthetic enamel paint on both sides within aluminium frames.
- 8) 25 mm. thick wardrobe shutter with MS frame painted with synthetic Enamel paint on both sides.
- 9) Double shutter Aluminium windows with glazed and wire mesh shutter. Oil bound distemper for internal painting.
- 10) For external finish a combination of washed stone grit plaster and spectrum finish.
- 12) Pozzolona Portland Cement as per IS specifications.
- 13) CP fittings, white glazed sanitary wares, centrifugal cast iron pipes for sewer lines, GI pipes for water supply lines and PVC overhead tanks.
- 14) Electrical wiring with copper wire.
- 15) Modular switches, energy efficient electrical fixtures.
- 16) Network, telephone connection in the rooms and common areas.

SPECIFICATION:- Brief specifications of work shall be as follows:

ABSTRACT OF COST

Name of work: Preliminary Estimate for construction of Hall of Residence 1

: Civil Work) Based on DPAR-1992, Base price as 100 enhanced by Cost Index

205

Sl. No	Sub Head and item of work	As per Original P.E.(Indexed Rates)			As per Revised P.E.(Basic Rates)		
		Qty.	Rate	Unit	Qty.	Rate	Unit
1	RCC Framed Structure:						
	RCC framed structure upto six storey						
1.1.1	Floor height 2.9 m	11075	5617	sqm.	11075	2740	sqm
2	Extra for:						
1.2.3	Extra for .25 m of additional floor height beyond normal floor height of 2.9m (Hostel)	10495	214	sqm.	10495	125	sqm
	Extra for .70 m of additional floor height beyond normal floor height of 2.9m (Facilities)	575	598	sqm.	575	3x125	sqm.
1.2.8	Resisting Earthquakes forces	11075	513	sqm.	11075	250	sqm.
1.2.1	Larger modules over 35 sqm.	500	451	sqm.	500	220	sqm.
1.2.1	Termite proof treatment(On ground floor only)	3615	154	sqm.	3615	75	sqm
3	Services:						
3.1	Internal water supply and sanitary installation	9331241	15%		30345500	15%	
3.2	External service connections	3110414	5%		30345500	5%	
3.3	Electrical:						
3.3	Internal electrical installations	9331241	15%		30345500	15%	
3.6	Extra for superior specifications based on DPAR-92						
3.6.1	Power wiring & plugs	2488331	4%		30345500	4%	
MR	Copper wiring	62208275	1%		30345500	1%	
MR	Extra for modular switches	62208275	1.50%		30345500	1.50%	
MR	Extra for networking conduits	62208275	0.50%		30345500	0.50%	
LS	Cable tray	150000			150000		
Total (A + B + C + D)		97527980			47917985		
Total D		4504579			2274185		
Total C		9331241			4551825		
Total B		12441655			6069100		
Total A		71250505			35022875		

Sl. No	Sub Head and item of work	As per Original P.E.(Indexed Rates)			As per Revised P.E.(Basic Rates)		
		Qty.	Rate	Unit	Qty.	Rate	Unit
1	RCC Framed Structure:						
	RCC framed structure upto six storey						
1.1.1	Floor height 2.9 m	11075	5617	sqm.	11075	2740	sqm
2	Extra for:						
1.2.3	Extra for .25 m of additional floor height beyond normal floor height of 2.9m (Hostel)	10495	125	sqm.	10495	125	sqm
	Extra for .70 m of additional floor height beyond normal floor height of 2.9m (Facilities)	575	3x125	sqm.	575	3x125	sqm.
1.2.8	Resisting Earthquakes forces	11075	250	sqm.	11075	250	sqm.
1.2.1	Larger modules over 35 sqm.	500	220	sqm.	500	220	sqm.
1.2.1	Termite proof treatment(On ground floor only)	3615	75	sqm.	3615	75	sqm
3	Services:						
3.1	Internal water supply and sanitary installation	9331241	15%		30345500	15%	
3.2	External service connections	3110414	5%		30345500	5%	
3.3	Electrical:						
3.3	Internal electrical installations	9331241	15%		30345500	15%	
3.6	Extra for superior specifications based on DPAR-92						
3.6.1	Power wiring & plugs	2488331	4%		30345500	4%	
MR	Copper wiring	62208275	1%		30345500	1%	
MR	Extra for modular switches	62208275	1.50%		30345500	1.50%	
MR	Extra for networking conduits	62208275	0.50%		30345500	0.50%	
LS	Cable tray	150000			150000		
Total (A + B + C + D)		97527980			47917985		
Total D		4504579			2274185		
Total C		9331241			4551825		
Total B		12441655			6069100		
Total A		71250505			35022875		



Signature

Shravan



Sl. No	Sub Head and Item of work	As per Original P.E.(Indexed Rates)	As per Revised P.E(Basic Rates)	Amount
1	Framed Structure as per (A+B+C+D)	97527980	47917985	47917985
2	Add cost Index @ 160% on 47917985		160%	47917985
3	Extra for superior specifications & Architectural features	9812699		9003352
4	Extra for Energy Efficient Features	3458500		3458500
5	Total E	110799179		137048613
6	cost of project Management @ 1.5% of E	1661988		2055729
7	Architect Fees @ 5.612% (5% Fees + Services Tax @ 12.24 % of E	6218050		7691168
	Contingencies (Lumpsum)	500000		500000
	GRAND TOTAL	119179217		147295510
				1473 Lacs

Sl. No	Sub Head and Item of work	As per Original P.E.(Indexed Rates)	As per Revised P.E(Basic Rates)	Amount
1	Framed Structure as per (A+B+C+D)	97527980	47917985	47917985
2	Add cost Index @ 160% on 47917985		160%	47917985
3	Extra for superior specifications & Architectural features	9812699		9003352
4	Extra for Energy Efficient Features	3458500		3458500
5	Total E	110799179		137048613
6	cost of project Management @ 1.5% of E	1661988		2055729
7	Architect Fees @ 5.612% (5% Fees + Services Tax @ 12.24 % of E	6218050		7691168
	Contingencies (Lumpsum)	500000		500000
	GRAND TOTAL	119179217		147295510
				1473 Lacs

SUMMARY OF COST

SUMMARY OF COST

Sl. No	Sub Head and Item of work	As per Original P.E.(Indexed Rates)	As per Revised P.E(Basic Rates)	Amount
DSR	Extra for kota stone flooring	5850	437	2654465
DSR	Extra for vitrified tiles flooring	730	727	530970
DSR	Extra for Ceramic tiles in Dining & Kitchen	90	180	16199
MR	Extra for Jaisalmer flooring	545	1050	572250
MR	Extra for fire clay Brick flooring	10	225	2250
DSR	Extra for false ceiling-Gypsum	100	515	51458
DSR	Extra for Oil bound distemper	24500	31	757889
MR	Extra for using aluminium windows	1300	1213	1577219
MR	Extra for Grit Plaster/Spectrum Finish	15000	250	3750000
	Total	9812699		9003352
MR	Extra for 300m cavity wall	8450	130	1098500
MR	Extra for hollow clay tiles at roof	2900	400	1160000
MR	Extra for pergola/Trellis	600	LS.	1200000
	Total	3458500		3458500

Sl. No	Sub Head and Item of work	As per Original P.E.(Indexed Rates)	As per Revised P.E(Basic Rates)	Amount
DSR	Extra for kota stone flooring	5850	437	2654465
DSR	Extra for vitrified tiles flooring	730	727	530970
DSR	Extra for Ceramic tiles in Dining & Kitchen	90	180	16199
MR	Extra for Jaisalmer flooring	545	1050	572250
MR	Extra for fire clay Brick flooring	10	225	2250
DSR	Extra for false ceiling-Gypsum	100	515	51458
DSR	Extra for Oil bound distemper	24500	31	757889
MR	Extra for using aluminium windows	1300	1213	1577219
MR	Extra for Grit Plaster/Spectrum Finish	15000	250	3750000
	Total	9812699		9003352
MR	Extra for 300m cavity wall	8450	130	1098500
MR	Extra for hollow clay tiles at roof	2900	400	1160000
MR	Extra for pergola/Trellis	600	LS.	1200000
	Total	3458500		3458500

Extra for superior specifications & Architectural features

Name of work: Preliminary Estimate for construction of Hall of Residence 1

**BASIC APPROACH FOR PREPARATION OF
DELHI SCHEDULE OF RATES, 2007**

1. DSR 2007 has been prepared on the basis of coefficients of labour, materials, sundries, hire charges etc. adopted in DAR 1997 and market rates of materials at Delhi collected during the period of April 2007 to October 2007. Labour rates are current minimum wage rates issued by the Government of National Capital Territory of Delhi w.e.f. 01-09-2007.
2. DARS 1997 are under revision. Till the issue of revised DARS, existing DARS - 1997 may be followed after correlating with relevant items.
3. Sundries have been considered as 2.60 times based on Cost Index of Delhi as 260 as on 1.10.2007 over DPAR 01-01-1992 as 100.
4. Contractor's profit and Overheads @ 15% has been adopted as approved by the DGW vide Office Memorandum no. DG (W) MAN/150 dated 14/12/2007.
5. This schedule will be read along with CPWD specifications, 1996 Vol-1 to VI with up-to-date correction slips, 1 to 19 and revised CPWD Specifications 2002 for Mortar, Cement concrete and RCC till these are amended/ modified.

72
7/14/06
M. J. ...

1. The Institute architect presented the campus master plan depicting proposed broad zoning of (i) academic area, (ii) hostel areas and (iii) residential area for the faculty and staff. The master plan was discussed in details. However, in view of the land topography, land distribution and various functional requirements of the campus, the master plan proposed by the architect was accepted by the Board.
2. As desired by the Finance Committee in the meeting held on July 25, 2006, the comparative statements for the proposed estimated costs for hostels, lecture halls and class rooms complex (LHRC) and course labs of the Institute vis-a-vis those of IIT Kanpur were placed before the Board. It was observed that the constructed floor area per student in hostels of PDPM-IIITDM Jabalpur (27.15 sqm) was marginally higher than that of Hall-IX of IIT Kanpur which was being currently built. However, the constructed (25.85 sqm) area per student was similar to that of other hostels of IIT Kanpur. Since the land available to PDPM-IIITDM Jabalpur is undulated and thus required different approach for designing its building, the Board accepted the figures presented by the Institute.
3. The estimated cost of construction per sqm, of the Lecture Hall Complex including energy efficient measures and air conditioning, was observed to be lower at PDPM-IIITDM Jabalpur (Rs. 14,942/-) in comparison to the same at IIT Kanpur (Rs. 16,800/-), on the other hand, the cost per sqm of hostels without energy efficiency measures at PDPM-IIITDM Jabalpur (Rs. 9,692/-) were marginally higher than those at IIT Kanpur (Rs. 9,046/-). This marginal increase was attributed to frame-structure construction approach to be followed at Jabalpur (due to inferior quality of bricks) vis-a-vis load bearing structure approach followed at IIT Kanpur (Annex - 10)
- In view of the above the Board found (a) proposed the constructed area per student and (b) estimated cost of construction per sqm reasonable and comparable with that at IIT Kanpur. The Board further accepted the incorporation of energy efficiency features and associated superior specifications proposed for the two hostels.
- In view of the above, the Board gave the administrative and financial approval for the construction of two 408 capacity of each Hostels, Lecture Halls and Class Rooms Complex (LHRC) and the course labs at preliminary estimates of Rs. 2384 lacs, Rs. 661 lacs and Rs. 700 lacs respectively.
- In view of the urgency of the situation, the Chairman desired that the Institute works for building temporary and flexible structures in the campus with the aim of holding classes and labs of the Institute there from the next academic session itself. The Institute architect was requested to do the needful in this regard.

12/08/06
[Signature]

The Board accepted the logo designed by the Mr. Anindya Kastha with a few suggestions. The Board desired that the artist meets the Chairman and discusses suggested modifications, so that, the same can be incorporated in the logo design. The committee recommended the design submitted by Mr. Anindya Kastha (currently employed by ITC Kolkata as a designer trainee). All the designs of competition were placed before the Board.

- 1. Prof. Sanjeev Bhargava
- 2. Prof. Amit Ray (IIT Kanpur)
- 3. Prof. A. Ojha
- 4. Dr. Puneet Tandon
- 5. Dr. Tanuja Sheorey
- Chairman
- Member
- Member
- Member
- Member

The Board was informed that competition for designing 'Institute Logo' for PDM-IIIITDM Jabalpur, was held at IIT Kanpur in which 12 students of M. Des. programme had participated. A committee was constituted to shortlist and recommend Institute logo design to the Board. The entries submitted were examined by the following committee:

BOG/2006.2.17(A)	Adoption of the Institute Logo
------------------	--------------------------------

The Academic Senate in its meeting held on June 24, 2006 nominated Prof. Aparajita Ojha as the senate nominee of the Board in place of Prof. S. Bhargava, who had taken the charge as the Director and the same was approved by the Chairman BOG. The Board ratified the appointment of Prof. Aparajita Ojha as a member of the Board as one of the nominees of senate.

BOG/2006.2.16	Appointment of Prof. Aparajita Ojha as member of BOG (Senate Nominee)
---------------	---

The Board approved the pensionary benefit in case of Prof. Aparajita Ojha and Dr. Tanuja Sheorey as they were already in pension scheme in their previous employments, fulfilled the requirements of the Government of India norms on the same. However, this being a financial matter, it was suggested that the same may also be referred to Finance Committee for information and advice.

BOG/2006.2.15	Sanction of Pensionary benefit in case of Prof. Aparajita Ojha and Dr. Tanuja Sheorey in the institute who were already in pension scheme in previous employments.
---------------	--

12/2006
[Signature]

1. Efforts must be made to develop and introduce Research/M.Tech/B.Tech/ Dual Degree programmes in the area of computational engineering & science from the academic session 2007-08. An expert group could be consulted for deciding about nomenclature of such programmes.

The proposal to set up the National Center for Computational Engineering & Science at the Institute was discussed in details. The Board felt that the proposal was indeed commendable and would fit into the theme of the Institute, i.e. IT, Design and Manufacturing at both undergraduate as well as postgraduate levels. The Board resolved the following in this regard:

The Director informed the Board that he had constituted an Expert Committee, with Prof Dikshit as the Convener, for advising the Institute regarding the proposal to set up a National Center focused on Computational Science and Engineering at PDPM IITDM Jabalpur. Subsequently, a meeting of the Expert Committee was held in the office of the Secretary Education, Minister of Human Resource Development, Govt. of India on July 26, 2006 in which Prof Dikshit had made a presentation about the concept and possible directions of development of teaching and research programmes under the Center (Minutes enclosed).

BOG/2006.2.17(B) 2 Proposal for Setting up a National Center for Computational Engineering & Science

The Board appreciated the proposal and approved the initiation of the four distinguished lecture series. It also approved an honorarium of Rs 25,000/- per lecture besides TA/DA and local hospitality to the speakers.


The Board was informed that these lectures (preferably two in each semester) shall be delivered by very eminent academics who shall be selected by the committee appointed by the Director. The Institute shall make them available in the printed form as part of an annual publication with CDs for their multi-media coverage. Efforts shall also be made to telecast them.

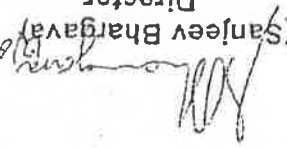
- 1. Vishwesharaya Distinguished Lecture in the area of Engineering Technology
- 2. Ramanujan Distinguished Lecture in the area of Computer Science & Engineering
- 3. Raman Distinguished Lecture in the area of Biological and Physical Sciences with computational applications
- 4. Tagore Distinguished Lecture in the area of Arts, Social Sciences and Humanities.

The proposal for organizing the following four Distinguished Lecture Series in the Institute on an annual basis was presented to the Board:

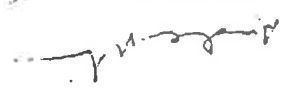
BOG/2006.2.17 (B) 1 Proposal for Initiating four Distinguished Lecture Series at the Institute

2. The process of developing and enhancing new capabilities at the Institute in emerging directions must be achieved by organizing seminars and workshops in the first year.
 3. The Institute must make a proposal for funding from an appropriate agency to set up the National Center including the Vision Statement, the need for the programme, the expertise already available at the Institute, the infrastructural support needed at the center and the budgetary provisions that must be made to create and maintain such a center over a long term.
- Doctoral/Post-Doctoral level academics and professionals may be appointed as Consultants/Senior Research Associates/Fellows in the Center as per sanctioned provisions.


J.P. Singh
Secretary to the Board of Governors


(Sanjeev Bhargava)
Director

Minutes Approved


Chairman
Board of Governors

Handwritten notes and signatures at the top left, including "10/11/10" and "10/11/10-2010".

CPD-M-III TDM, JABALPUR
DISPATCH
S No 1591
10 NOV 2010

Handwritten circular stamp: 10/11/10

अधिरक्षक अभियंता(पब)
मध्य अंचल, के.बी.नि.वि., भोपाल

Handwritten signature and initials below the header.

यह पत्र मुख्य अभियंता(म.अ.) के अनुमोदन से जारी है।

वर्षावत प्रावधान के अतिरिक्त यह भी बताया जा रहा है कि बैंक गारंटी की वैधता कम-से-कम करार की धारा 17 जूटि निवारण की अवधि तक होनी चाहिए जो कि कार्य समाप्त की समयवधि की स्थिति में ठेकेदार द्वारा तदनुसार बढ़ाया जाना होगा, ऐसी सहमति भी होगी।
वर्षावत प्रावधान के अतिरिक्त यह भी बताया जा रहा है कि बैंक गारंटी की वैधता कम-से-कम करार की धारा 17 जूटि निवारण की अवधि तक होनी चाहिए जो कि कार्य समाप्त की समयवधि की स्थिति में ठेकेदार द्वारा तदनुसार बढ़ाया जाना होगा, ऐसी सहमति भी होगी।
कंपना वर्षावत संदर्भित पत्र के संबंध में यह जानकारी दी जाती है कि CPWD-2008 की धारा 1-ए में स्पष्ट है कि प्रतिभूति निधिपत्र को न्यूनतम पांच लाख रुपये के संवयन पर अनुरोधित बैंक द्वारा जारी किया गया है जो प्रतिभूति बैंक गारंटी के बदेले जारी किया जा सकता है। अगर करार में ऐसा प्रावधान किया गया है तो प्रतिभूति निधिपत्र बैंक गारंटी में तबदील की जा सकती है।

विषय :- Advice on release of amount of security deposit against bank guarantee.
संदर्भ :- आपके कार्यालय का पत्र क्रमांक IIITDMJ/B&W/10/09/04 दिनांक 13.09.2010.

प्रति
निदेशक,
इंडियन इंस्टीट्यूट ऑफ इन्फार्मेशन टेक्नोलॉजी,
हिजायन एण्ड मैनुईकैचरिंग,
इमना एयरपोर्ट रोड, पी. एम.ए.ए.
जबलपुर - 482005

सं. 23(463) 1/मु.अ.(म.अ.)/नि-1/3/10/2010 दिनांक 27/09/2010

भारत सरकार
कार्यालय मुख्य अभियंता (मध्य अंचल)
केंद्रीय लोक निर्माण विभाग
निर्माण सदन, 52 ए, अररा हिल्स, भोपाल - 11

The estimate provides for construction of Student Activity center Phase-1 in Lower Ground, Ground Floor & Upper Ground Floor Construction. The building shall be RCC framed structure & Steel Structure. Load bearing capacity of soil formation is assumed at 180 Kn/m², yet to be determined.

The estimate for Student Activity center Phase-1 has been framed keeping in view the provision of specification and construction material shown in the drawings.

Sr.No.	Drg. No.	Description
1	SA-01	Lower Ground Floor Plan
2.	SA-02	Ground Floor Plan
3.	SA-03	Upper Ground Floor Plan
4.	SA-04	Section Drawing
5.	SA-05	Section Drawing

Design & Scope :- The preliminary estimate is based on the following architectural drawings,

The requisition for the work has been communicated by the institute during the meeting dated 13-10-2010.

competent authority.

the above work and for accord of Administrative Approval & Expenditure Sanction from the

History:- This Preliminary estimate amounting to Rs. 1013 Lacs including 22% cost Index, 1.5% Project Management and 5% Architect fees has been framed to meet the probable cost of

REPORT

This Preliminary Estimate Framed by Datta and Datta Associates, Ahmedabad of the probable cost of Rs. 10,12,93,331/- (Rupees Ten crore Twelve Lac ninety three thousand three hundred thirty one only) including 22% cost Index, 1.5% Project Management and 5% Architect fees.

Major Head	Minor Head	Detailed Head
		Deposit Work

Name of Work:- Student Activity Center Phase -1 for PDPM IIT D&M, Jabalpur(MP)
Fund :-

SPECIFICATION: The work shall be carried out as per CPWD specification 2007 Vol I to II.

RATE :- As per PAR 2007 with upto date correction slips duly enhanced by approved cost index of 122 for Jabalpur as on 01.07.09.

Cost :- 10,12,93,331/- including 22% cost Index, 1.5% Project Management and 5% Architect fees.

W.C. Estt.:- Shall be met out of contingencies, if required.

LAND:- Available with client.

T & P:- No special T&P will be required.

METHOD:- By contract after call of tenders.

TIME:- 12 months

Datta & Datta Associates

Client: PDPM Indian Institute of Information Technology Design and Manufacturing, Dumna Air Port Road, P.O.

Khamariya, Jabalpur-482005

Architects : Datta And Datta Associates, 101, Sneh Shilp, 66 Swastik Society, Navrangpura, Ahmedabad - 09

Project: Proposed Construction of Student Activity Center(Phase - 1) At IIT Jabalpur

STUDENT ACTIVITY CENTER PHASE - 1

Preliminary Estimate Based on CPWD Plinth Area Rates 2007

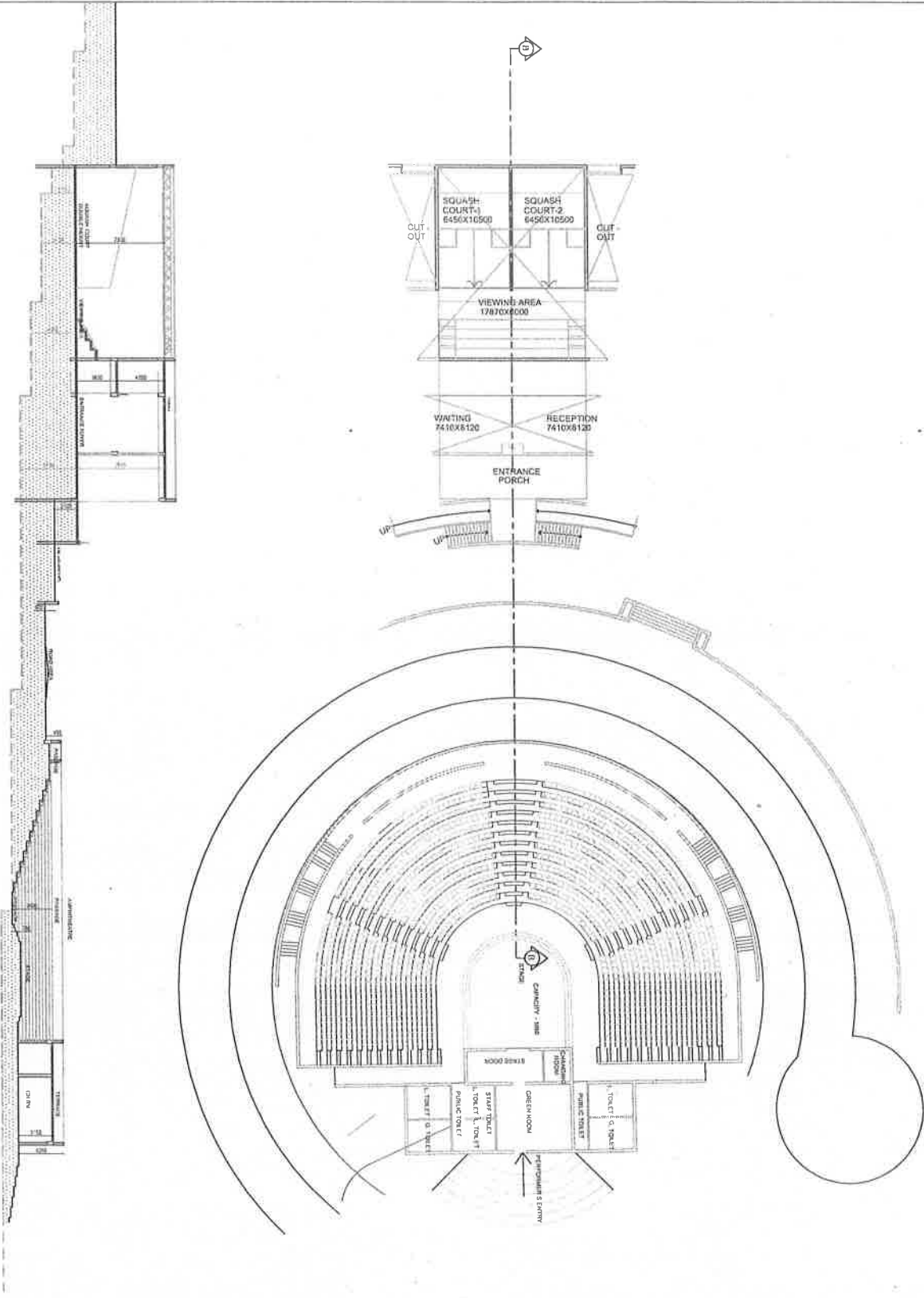
ABSTRACT OF COSTS

SR.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
1	R.C.C. FRAMED STRUCTURE				
1.1	R.C.C. frames structure upto six storeys				
1.1.1	Floor height 3.35 mt.	SQM	2587.80	13200.00	34158960.00
	Ground Floor Area - 1838.6				
	Upper Floor Area - 749.21 (1838.6+749.2 = 2587.80)				
1.2	EXTRAS FOR				
1.2.3	Every 0.3 mt. additional height of floor above normal floor height of 3.35 mt.	SQM	2587.80	150.00	388170.00
1.2.3	Every 0.3 mt. additional height of floor above normal floor height of 3.35 mt.	SQM	18276.29	150.00	2741443.50
	For Hall 1 (8.7-3.35 - 0.3 = 5.05) (5.05/0.3 = 17)(735.95*17=12511.75)				
	For Entrance (7.2 - 3.35 - 0.3 = 3.55) (3.55/0.3 = 12)(34*12 = 408)				
	For Hall 2 (7.8-3.35-0.3 = 4.15)(4.15/0.3 = 14)(14*247.01 = 3458.14)				
	For Entrance (7.8 - 3.35 - 0.3 = 4.15) (4.15/0.3 = 14)(14*135.6 = 1898.4) (12511.75+408+3458.14+1898.4 = 18276.29)				
1.2.4	Every 0.3 mt. higher plinth over normal plinth height of 0.6 mt. (on G.F. area only)	SQM	16221.53	150.00	2433229.50
	Plinth up to 1.55m = 1:55-0.6 = 0.95/0.3 = 3*463.7 = 1391				
	Plinth up to 5.15m = 5.15-0.6 = 4.55/0.3 = 15*(428.10+119.1) = 8208				
	Plinth up to 4.15m = 4.15-0.6 = 3.55/0.3 = 12*180 = 2160				
	Plinth up to 3.15m = 3.15-0.6 = 2.55/0.3 = 9*(130+124.2) = 2287.8				
	Plinth up to 6.75m = 6.75-0.6 = 6.15/0.3 = 20*150.70 = 3014				
	Plinth up to 4.062m = 4.062-0.6 = 3.462/0.3 = 12*108.44 = 1301.28				
	Plinth up to 2.15m = 2.15-0.6 = 1.55/0.3 = 5*29.45 = 147.25				
	(1391+8208+2160+3014+1301.28+147.25 = 16221.53)				
1.2.8	Resisting Earthquake forces	SQM	2587.80	630.00	1630314.00
1.2.11	Stronger structural members to take heavy load above 500 Kgs./sqm. upto 1000 Kgs./Sqm.	SQM	50.00	850.00	42500.00

SR.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
1.2.12	Larger modules over 35 sqm For Hall - 735.95+247.01+135.6 For Activity - 129.37 For Cateria - 47.39	SQM	1295.32	990.00	1282366.80
1.3	BASEMENT FLOOR				
1.3.1	Floor Height 3.35 mt with normal water proofing treatment with bituminous felt	SQM	463.70	18035.00	8362829.50
1.3.2	EXTRA FOR BASEMENT WITH				
1.3.2.2	Every 0.3 mt. addl. Height (above 3.35 mt.)	SQM	463.70	1274.00	590753.80
1.4	FIRE FIGHTING				
1.4.1	With wet riser system	SQM	2587.80	300.00	776340.00
Total (A)					
3.0	SERVICES				
3.1	Internal water supply and sanitary installations	%	46242156.80	4.00	1849686.27
3.2	External service connections	%	46242156.80	5.00	2312107.84
3.3	Internal Electric Installation	%	46242156.80	12.50	5780269.60
3.6	Extra for :				
3.6.1	Power wiring and plugs	%	46242156.80	4.00	1849686.27
3.6.2	Central Call bell system	%	46242156.80	1.00	462421.57
3.6.3.1	Upto 4 storeys Building	%	46242156.80	0.50	231210.78
3.6.4	Telephone Conduits	%	46242156.80	0.50	231210.78
3.6.7	Quality assurance	%	46242156.80	1.00	462421.57
Total (B)					
DSR ITEMS					
2.6	Earth work in excavation over areas (exceeding 30cm in depth. 1.5m in width as well as 10 sqm on plan) including disposal of excavated earth, lead upto 50m and lift upto 1.5m; disposed earth to be levelled and neatly dressed (45X30X3=4050)				
2.6.1	All kinds of soil	cum	4050.00	101.85	412492.50
2.25	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth: consolidating each deposited layer by ramming and watering, lead up to 50 m and lift up to 1.5 m.	cum	2700.00	45.70	123390.00
Total (C)					
535882.50					
4	NDSR ITEM				
	PVC / WOODEN FLOORING				

SR.	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	Providing Decora - Universal Indoor Sport Flooring in-situ 2 Layers(9mm) system with two layer system. They are 100% solid polyurethans.	SQM	1000.00	5810.00	5810000.00
5	P/F, 12mm thick Toughened Glass in adequate frame work	sqm	94.00	2015.35	189442.90
6	P/F, Special paints as per requirement on the wall of squash court	sqm	160.00	120.00	19200.00
7	P/F, Decora universal indoor flooring in situ 2layers 9mm system and 100% solid polyurethane.	sqm	140.00	5810.00	813400.00
8	SPECIAL LIGHTING				5500000.00
	Total (D)				12332042.90
	Total (A + B + C+D)				78453847.19
6.0	Cost Escalation (22% as per DSR Circulars)	%	78453847.19	22.00	17259846.38
7.0	Architect Fees @ 5.612%	%	78453847.19	5.612	4402829.90
8.0	Project Management @ 1.5%	%	78453847.19	1.5	1176807.71
	GRAND TOTAL AFTER PRICE ESCALATION				101293331.18
	NOTE :				1013 Lacs
(a)	This estimate does not include Cost of Sub Station, LT distribution systems, DG Set, Façade lighting, pumps, HVAC, Site Development, Rain Water Harvesting, Solar Water Heater System, Kitchen Equipments, Water Cooler, Filter water supply, Crockery, Furniture etc.				

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REVISIONS:

NO.	DATE	DESCRIPTION
1	14-11-10	ISSUED FOR PERMIT
2	14-11-10	ISSUED FOR PERMIT
3	14-11-10	ISSUED FOR PERMIT
4	14-11-10	ISSUED FOR PERMIT
5	14-11-10	ISSUED FOR PERMIT
6	14-11-10	ISSUED FOR PERMIT
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16	14-11-10	ISSUED FOR PERMIT
17	14-11-10	ISSUED FOR PERMIT
18	14-11-10	ISSUED FOR PERMIT
19	14-11-10	ISSUED FOR PERMIT
20	14-11-10	ISSUED FOR PERMIT

TITLE: SECTION FOR STUDENT ACTIVITY CENTRE: P1/MS-1

PROJECT: PROPOSED CAMPUS FOR INDIAN INSTITUTE OF INFORMATION TECHNOLOGY DESIGN & MANUFACTURING AT JABALPUR

SCALE: 1:100

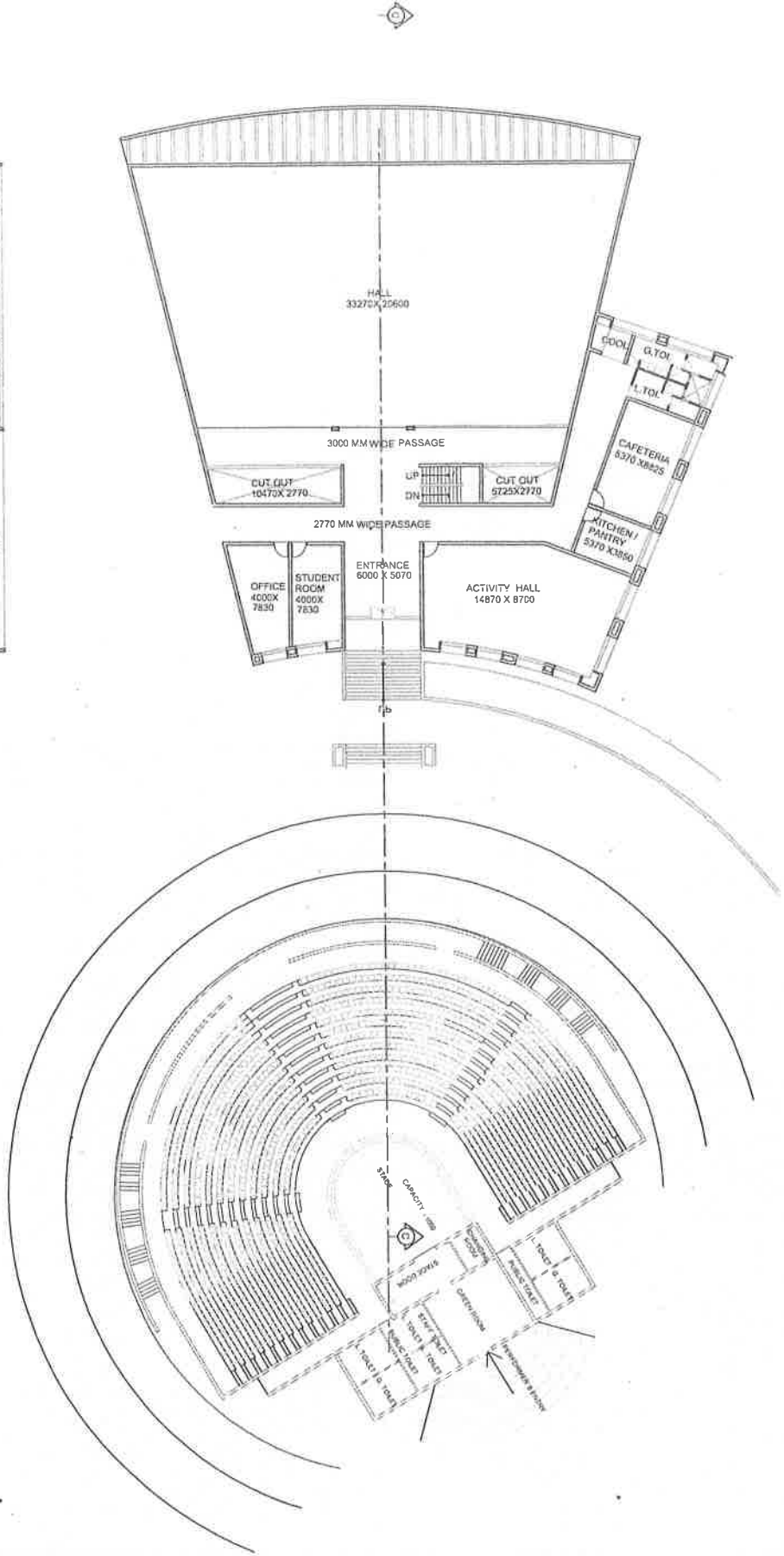
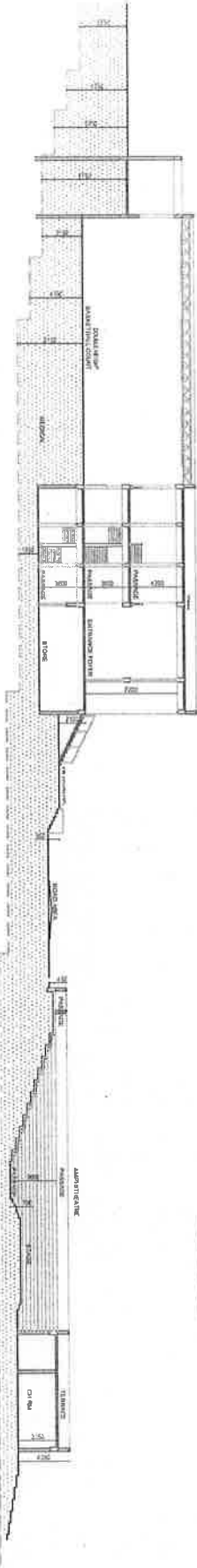
DATE: 14-11-10

DRAWN BY: AJAY KUMAR

CHECKED BY: DATTA AND DATTA ASSOCIATES

DATTA AND DATTA ASSOCIATES
 ARCHITECTS, ENGINEERS, INTERIORS, PLANNING & ENVIRONMENT CONSULTANTS
 14, ANANDAPURAM, 1ST CROSS, SHANMUKHA NAGAR, ANANDAPURAM - 500016
 HYDRABAD - (079) - 2667776, TEL: (079) - 2667776
 E-MAIL: datta@dattadatta.com, datta@dattadatta.com

SECTION-BB



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PROJECT: PROPOSED CAMPUS FOR INDIAN INSTITUTE OF TECHNOLOGY REGION DESIGN & MANUFACTURING AT JAWAI

SCALE: 1:4-1:10

DATE: 14-11-10

DESIGNER: MUKESH

DRAWN BY:

CHECKED BY:

DATE:

TITLE: SECTION FOR STUDENT ACTIVITY CENTRE

PIVISE: 1

REV.	DATE	DESCRIPTION
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

PROJECT: PROPOSED CAMPUS FOR INDIAN INSTITUTE OF TECHNOLOGY REGION DESIGN & MANUFACTURING AT JAWAI

SCALE: 1:4-1:10

DATE: 14-11-10

DESIGNER: MUKESH

DRAWN BY:

CHECKED BY:

DATE:

TITLE: SECTION FOR STUDENT ACTIVITY CENTRE

PIVISE: 1

DATE:

SCALE:

DESIGNER:

DRAWN BY:

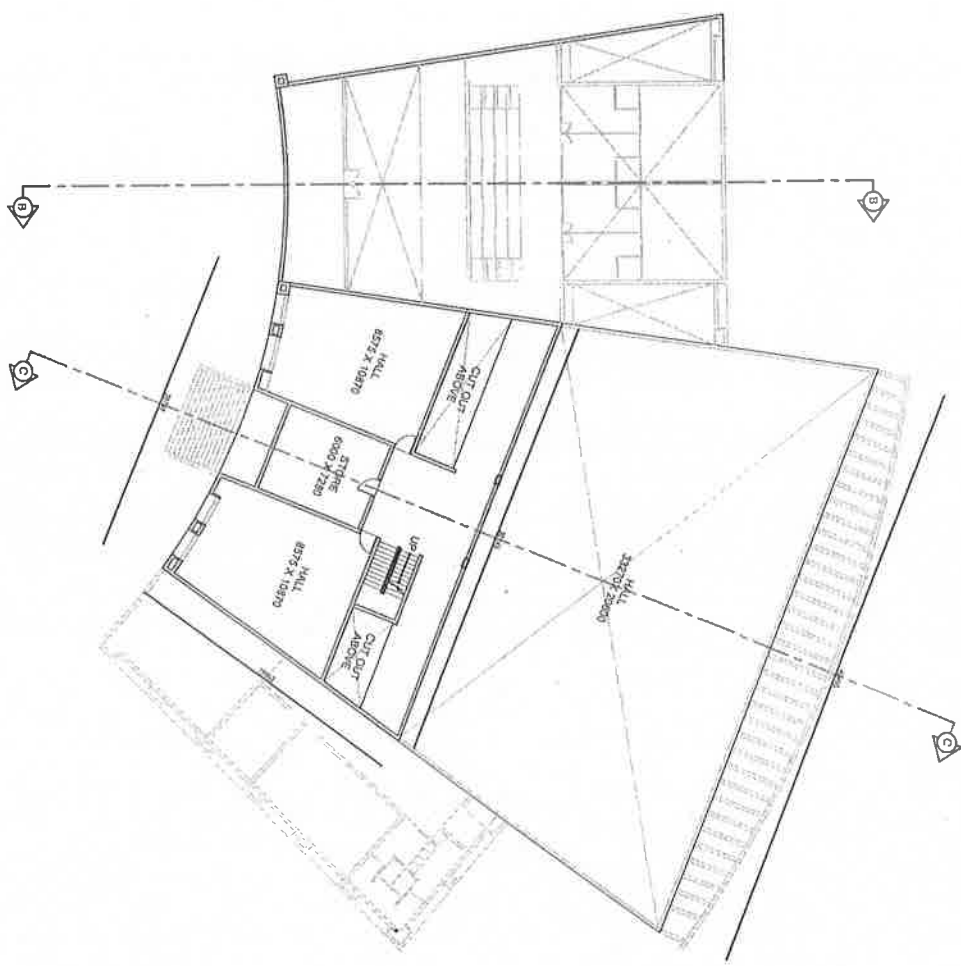
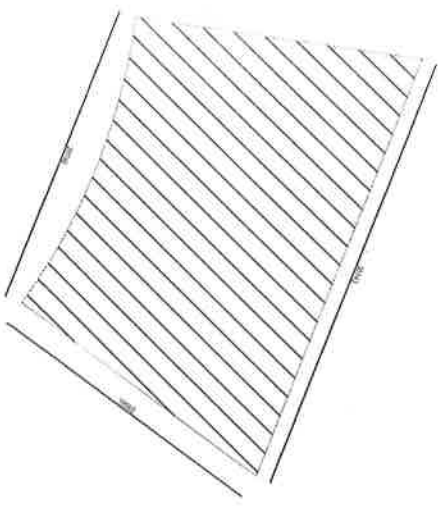
CHECKED BY:

DATE:

TITLE:

PIVISE:

DATTA AND DATTA ASSOCIATES:
 ARCHITECTS, DESIGNERS, INTERIORS & PLANNERS
 PLOT NO. 10, SECTOR 17, GATE NO. 1, INDIA
 TEL: (011) 2610 1111 FAX: (011) 2610 1112
 E-MAIL: datta@dattaassociates.com, datta@datta.com



TOTAL PLINTH AREA = 463.72

LOWER GROUND / BASEMENT FLOOR PLAN

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 ALL DIMENSIONS ARE IN METERS AND NOT IN FEET OR INCHES.
 ALL DIMENSIONS ARE TO FACE UNLESS SPECIFICALLY NOTED OTHERWISE.
 ALL DIMENSIONS ARE TO FACE UNLESS SPECIFICALLY NOTED OTHERWISE.
 ALL DIMENSIONS ARE TO FACE UNLESS SPECIFICALLY NOTED OTHERWISE.

REV	DATE	DESCRIPTION			
R	E	V	1	S	1

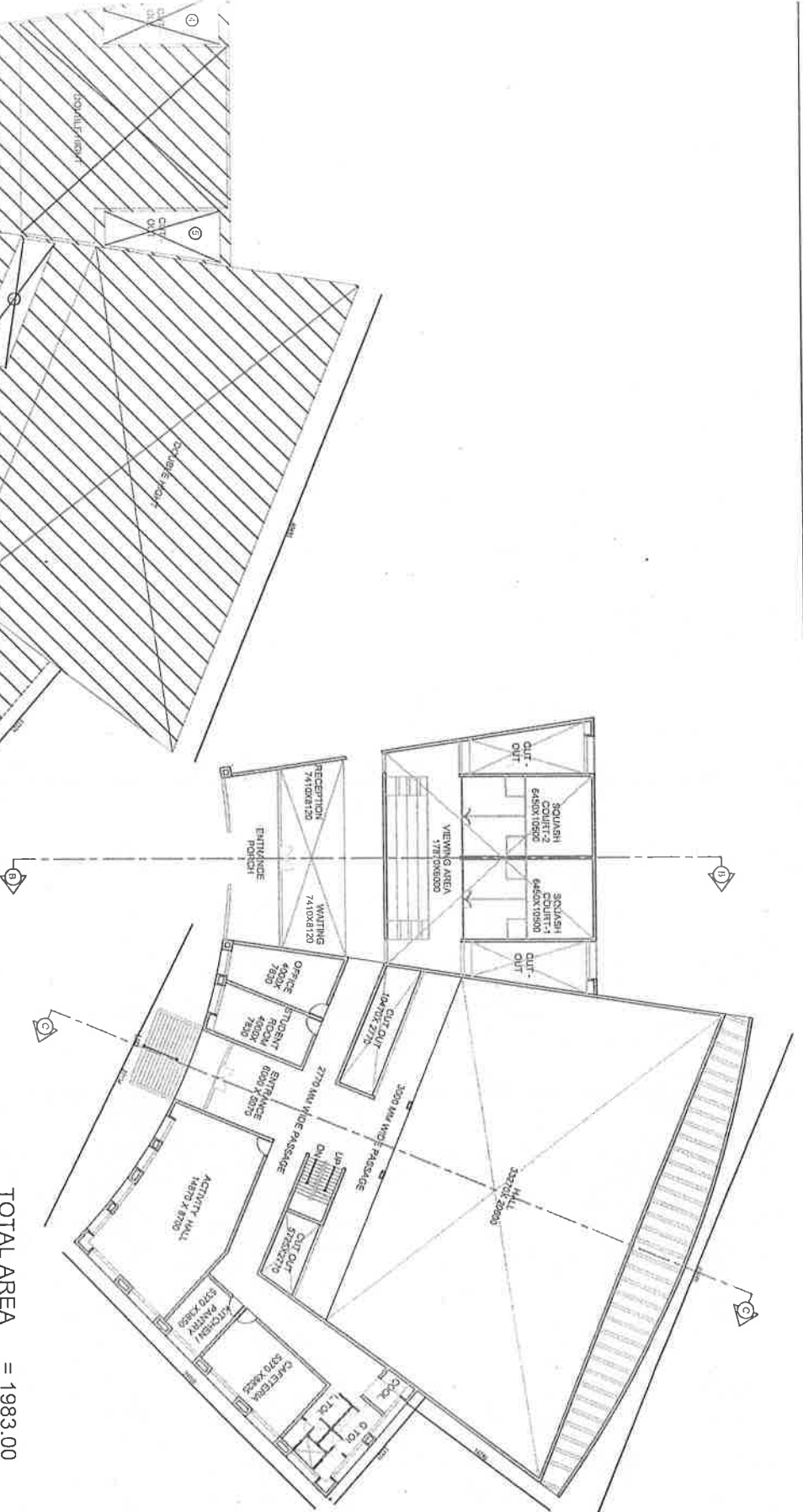
TITLE: LOWER GROUND FLOOR PL
STUDENT ACTIVITY CENTRE
PHASE - 1

PROJECT: PROPOSED CAMPUS FOR INDIAN INSTITUTE OF INFORMATION TECHNOLOGY DESIGN & MANUFACTURING AT JAWAHAR NAGAR, CHENNAI, TAMIL NADU, INDIA.

SCALE: 1:100
DATE: 14-11-10
DRAWN BY: MURSHI
CHECKED BY:

DATA AND DATA ASSOCIATES
 ARCHITECTS, ENGINEERS, INTERIORS & INTERIORS
 10, ANANDAPURAM, CHENNAI - 600 029, INDIA
 TEL: +91 44 2611 1111
 FAX: +91 44 2611 1112
 WWW: www.dataanddata.com

FOR THE PURPOSES OF THE CONTRACT, THE ARCHITECT'S OFFICE AND THE ENGINEER'S OFFICE SHALL BE CONSIDERED AS SEPARATE ENTITIES. THE ARCHITECT'S OFFICE SHALL BE RESPONSIBLE FOR THE DESIGN AND CONSTRUCTION OF THE BUILDING AND THE ENGINEER'S OFFICE SHALL BE RESPONSIBLE FOR THE STRUCTURAL DESIGN AND CONSTRUCTION OF THE BUILDING.



TOTAL AREA	=	1983.00
DEDUCT		
CUT OUT 1	=	29.01
CUT OUT 2	=	16.80
CUT OUT 3	=	34.30
CUT OUT 4	=	32.13
CUT OUT 5	=	32.13
TOTAL PLINTH AREA	=	1838.6

NO.	REVISION	DATE	DESCRIPTION

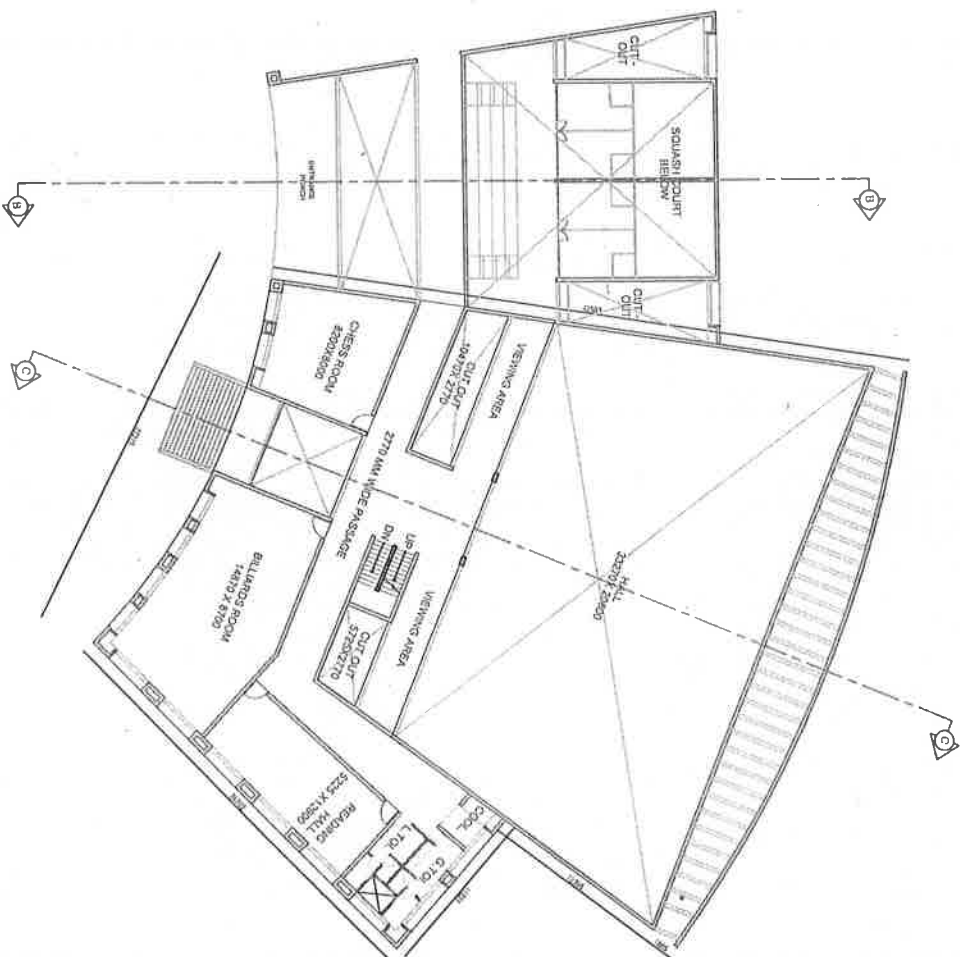
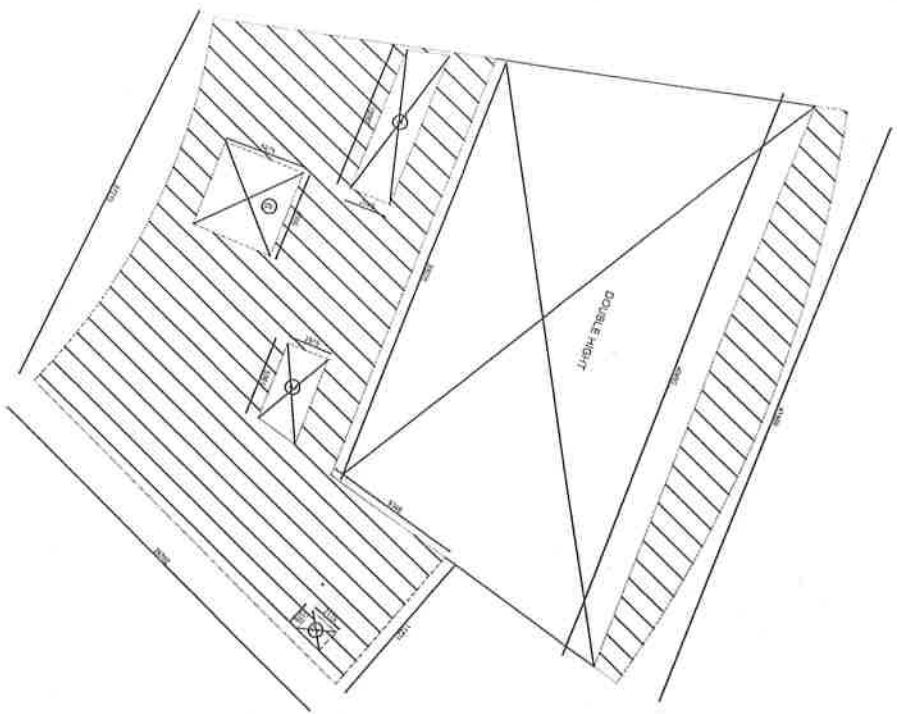
TITLE:
GROUND FLOOR PLAN
STUDENT ACTIVITY CENTRE:
PHASE - 1

PROJECT:
PRAGATI CAMPUS FOR INDIAN
INSTITUTE OF INFORMATION TECHNOLOGICAL
DESIGN & MANUFACTURING AT JAWAHAR
SCHE - 1100
SCALE - 1:4-11-10
DATE - 14-11-10
SCALE - 1:4-11-10
SCALE - 1:4-11-10
SCALE - 1:4-11-10

DATE: 14-11-10
SCALE: 1:4-11-10
SCALE: 1:4-11-10
SCALE: 1:4-11-10

DATE: 14-11-10
SCALE: 1:4-11-10
SCALE: 1:4-11-10
SCALE: 1:4-11-10

GROUND FLOOR PLAN



TOTAL AREA = 863.70

DEDUCT

CUT OUT 1 = 29.01

CUT OUT 2 = 16.80

CUT OUT 3 = 34.30

CUT OUT 6 = 34.02

TOTAL PLINTH AREA = 749.2

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SCALE	1:100	DRAWN	DATE
DATE	14-11-10	CHECKED	
BY		DATE	
PROJECT	UPPER GROUND FLOOR PLAN		
CLIENT	STUDENT ACTIVITY CENTRE		
PHASE	PHASE - 1		
PROJECT	PROJECTS CAMPUS FOR INDIAN INSTITUTE OF INFORMATION TECHNOLOGY & MANUFACTURING AT JAWAHAR		
ARCHITECT	DATTA AND DATTA ASSOCIATES		
ADDRESS	101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000		

