

Agenda Notes

2010: 2nd Meeting
of the
**Building & Works
Committee**

Venue of the Meeting

Conference Hall, PDPM-IIITDM, Jabalpur

Date and Time of the Meeting

July 24, 2010 at 10.30 Hrs



PDPM
Indian Institute of Information Technology,
Design and Manufacturing Jabalpur

Agenda Notes for the 2010/2nd Meeting of Buildings & Works Committee, 2010

[to be held on Saturday, July 24, 2010 at 10:30 am.

Venue: Conference Hall, PDPM IIITDM Jabalpur]

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B&WC/2010: 2.01 **Opening Remarks by the Chairperson**

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

B&WC/2010: 2.02 **Confirmation of the Minutes of 2010/ 1st Meeting of the B&WC held on Feb 21, 2010**

Minutes were circulated after the meeting and are placed at **Annexure B&WC/2010/2/A-1** (page P-7 to P-10). No comments have been received from the members.

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

B&WC/2010: 2.03 **To consider the Preliminary Estimate for the work of Construction of Triple Seated Hall of Residence 2**

A preliminary estimate has been submitted by the Architect, M/s Datta & Datta Associates, Ahmedabad for construction of Triple Seated Hall of Residence 2 having a capacity for accommodation of 498 students. The estimate amounting to Rs 2197 lacs (Rs two thousand one hundred 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 2.5% architect fee (as applicable for repeated works) has been placed as annexure **B&WC/2010/2/A-2** (page P-11 to P-18). 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 Triple Seated Hall of Residence 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: 2.04 **To consider the Preliminary Estimate for the work of Construction of Visitors Hostel**

A preliminary estimate submitted by the Architect, M/s Kanvinde Rai & Chowdhury, New Delhi for construction of Visitors Hostel, providing accommodation for out station visiting faculty and other guests of the Institute The estimate amounting to Rs 1078 lacs (Rs one thousand and

seventy eight 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/2010/2/A-3** (page P-19 to P-37). 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 Visitor Hostel 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: 2.05 To consider the Revised Preliminary Estimate for the work of Construction of Lecture Hall & Tutorial Complex

The necessity of the Revised Preliminary Estimate for this work was felt when the detailed estimate against sanctioned PE had been forwarded to the CPWD. The detailed estimate was found to be reaching to an amount of 29 crore, whereas, the Administrative approval and expenditure sanction against Preliminary estimates had been for an amount of Rs 24 crore (including Architect fee). In line of the above circumstances, the Revised Preliminary Estimate has been submitted by the architect M/s Architect Atelier, Chandigarh against a modified drawing, omitting 2 numbers of Lecture Halls of 300 capacities and 2 numbers of class rooms (these Lecture halls and class rooms have been taken for future expansion). The estimate amounting to Rs 3510 lacs (Three thousand five hundred and ten lacs only) as forwarded by the architects which is based on CPWD Delhi Plinth Area rates 2007 alongwith recently approved cost index 22% for Jabalpur, 3 % contingencies & 5 % architects and also including extra provisions for special type of roofing, acoustic treatment on walls, anti termite treatment, air conditioning etc. is annexed as **Annexure B&WC/2010/2/A-4** (page P-38 to P-48). The estimate has been sent to the CPWD for necessary vetting. The vetted estimate from the CPWD shall be placed on the table in the meeting itself.

The B & WC is requested to consider the Revised Preliminary Estimate (RPE) for construction of Lecture Hall & Tutorial Complex 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: 2.06 To consider Revised Estimate (RE) of the work of Shifting of 33 KV Dumna feeder away from the PDPM-IIITDM premises

The original estimate of the above work as submitted by the MPPKVV Co Ltd was of the value Rs. 9.62 lacs (Rs Nine point six two lacs only) and the same has been revised due to less provision of 33 KV line in the original estimate and also due to change of route of 33 KV line. The revised estimate as received from MPKVV for the above said work amounts to Rs. 18 lacs (Rs. Eighteen lacs only). The revised estimate is placed as **Annexure B&WC/2010/2/A-5** (page P-49 to P-51).

The B & WC is requested to consider the Revised Estimate for the above work amounting to Rs 18 Lacs (Rs. Eighteen lacs only) and to request the Finance Committee to consider the same and recommend it to the Board of Governors for its administrative approval and expenditure sanction.

B&WC/2010: 2.07 To consider Revised Estimate for the work power supply to 1500 KVA new HT connection on 33 KV to PDPM-IIITDM Jabalpur.

The original estimate of the above work as submitted by the MPPKVV Co Ltd was for an amount of Rs. 63.40 lacs (Rs Sixty three point four lacs only). The same has been revised due to change of route from the Military area due to security reasons and less provision of 33 KV line in the original estimate. The revised estimate for an amount of Rs 131 Lacs (Rs. One hundred and thirty one lacs only), as forwarded by the SE (O&M), MPPKVV Co. Ltd. to the corporate office of MPPKVV Co. Ltd. had been granted Administrative Approval and Expenditure Sanction during the 1st meeting of BOG held on February 25, 2010. The final revised estimate amounting to Rs 133.28 lacs (Rs One thirty three point two eight lacs only) has been received from the MPPKVV Co Ltd. The revised estimate is placed as **Annexure B&WC/2010/2/A-6** (page P-52 to P-60).

The B & WC is requested to consider the final Revised Estimate (as received from MPPKVV Co Ltd) for the above work amounting to Rs. 133.28 lacs (Rs. One hundred thirty three point twenty eight 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/2010:2.08

To consider Preliminary-cum-Detailed Estimate for construction of Road Network (Phase- I) at PDPM-IIITDM.

A preliminary cum detailed estimate has been received from the architect M/s Architect Atelier for the construction of Road Network of Academic area (Phase-I). The estimate has been forwarded to the CPWD for necessary vetting. The vetted estimate from CPWD, amounting to Rs 255 lacs (Rs two hundred and fifty five only) including 22% cost index for Jabalpur, 1% labour cess, 1% for quality assurance, 3% contingencies & architect fee, is placed as **Annexure B&WC/2010/2/A-7** (page P-61 to P-69).

The B & WC is requested to consider the Preliminary cum Detailed Estimate for the work of construction of Road Network (Phase-I) for an amount of Rs 255 (Rs Two hundred and fifty five only) including architect fee and to request the Finance Committee to consider the same and recommend it to the Board of Governors for its administrative approval and expenditure sanction.

B&WC/2010: 2.09

To consider the Preliminary Estimate for the work of Construction of External Lighting Works (Phase I)

The preliminary estimate as received from the architect M/s Architect Atelier for the work of construction of External Lighting Works (Phase I) has been prepared on Delhi Plinth area rates 2007. This preliminary cum detailed estimate amounting to Rs 79 lacs (Rs. Seventy nine lacs only) has been annexed as **Annexure B&WC/2010/2/A-8** (page P-70 to P-80). The same has been forwarded to the CPWD for necessary vetting. The vetted estimate from CPWD shall be placed on the table in the meeting itself.

The Building & Work Committee is requested to consider the Preliminary cum Detailed Estimate for construction of external lighting works(phase I) for an amounting 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: 2.10 Report items

AA & ES has been given by the Director for the construction of following projects:-

The Administrative Approval and Expenditure Sanction has been accorded during the period w.e.f 08-12-2009 till date by the Director, PDPM-IIITDM Jabalpur for different minor works with in the campus, as listed in **Annexure B&WC/2010/2/A-9** (page P-81). This is for kind information of the Building and Works Committee and further to the Finance Committee and the Board of Governors.

B&WC/2010: 2.11 Any other Item with the Permission of the Chair

ANNEXURE
B&WC/2010/21A-1

Minutes of 2010/ 1st Meeting of the
B&WC held on Feb 21, 2010

(Page P-7 to P-10)

B&WC/2010/2/A-1

PANDIT DWARKA PRASAD MISHRA
INDIAN INSTITUTE OF INFORMATION TECHNOLOGY,
DESIGN & MANUFACTURING JABALPUR

Minutes of the First Meeting of Building & Works Committee
held on February 21, 2010 at 11.00 AM in Conference Hall of the Institute.

Members Present:

- | | | |
|----|--|-----------------|
| 1. | Prof. Aparajita Ojha,
Director, PDPM-IIITDM Jabalpur | Chairperson |
| 2. | Dr. C.T. Mahajan,
Director (T), MHRD, GOI | Member |
| 3. | Shri P.S. Manglani
Ex-Superintending Engineer
Irrigation, Jabalpur | Member |
| 4. | Shri B.K. Nema
Ex-Superintending Engineer
PWD, Jabalpur | Member |
| 5. | Prof. Puneet Tandon
PDPM-IIITDM Jabalpur | Special Invitee |
| 6. | Shri S.K. Chawla, EE (Civil), CPWD | Special Invitee |
| 7. | Shri P.K. Oswal, EE (Electrical Planning), CPWD | Special Invitee |
| 8. | Shri Ranveer Singh, EE (Electical), CPWD | Special Invitee |
| 9. | Shri J.P. Singh, AE (Civil), CPWD | Special Invitee |
| 6. | Shri V.K. Dubey, AE (Civil), PDPM-IIITDMJ | Special Invitee |
| 7. | Shri R.P. Dwivedi, Dy Registrar | Secretary |

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

B&WC/2010: 01:01

Opening Remarks by the Chairperson, B&WC

Chairperson and the Director of the Institute Prof. Aparajita Ojha welcomed the members and introduced special invitees with other members of the Committee. Chairperson gave a brief Power Point Presentation about the Institute's Works under construction/likely to be constructed and invited suggestions from the members present. Some of the points discussed during her presentation were the following.

- **Institute Shifted to its Own Campus.** Institute shifted to its own campus situated at Dumna Airport Road, Jabalpur on July 27, 2009. Basic facilities, such as water, telephone, leased line connection etc. are now available. Other facilities will soon become available. Since the Institute campus is far off from the city and there are no means of transport, bus transport is made available to the students and employees of the Institute on subsidized rates.
- **Campus Construction Work.** Progress of triple seated Hall of Residence – I has been satisfactory. As per the Board's directive, a notice was issued to the contractor of Hall of Residence – 1 (Hostel 1) due to very slow pace of construction. The contractor was asked to complete the work by September 30, 2009 failing which the Institute would terminate the contract. After receiving the notice, the construction activities were geared up. However, the work could not be completed within the notice period. The contractor has sought extension upto May 31, 2010. Work of electric substation has been finalized and is under testing.
- Board of Governors of the Institute has taken a decision to get all major future works executed through CPWD. As a result, the award of tender to M/s Survi project for Lecture Hall and Tutorial Complex was cancelled and the work was assigned to CPWD. CPWD has also been assigned the work of Mess and Dining Hall, internal road network and electricity services and the residential complex.

B&WC/2010: 01:02 **Confirmation of Minutes of 2009/2nd meeting of the Building & Works Committee held on 18 July, 2009.**

No comments were received from the members of B&WC. The Committee confirmed the minutes of the 2009/2nd meeting held on 18 July, 2009.

B&WC/2010: 01:03 **To consider the Preliminary Estimates for the work of Construction of Narmada Residency-II (50 Nos Staff Flats)**

The B&WC discussed at length the concept drawings, design, specification and preliminary estimates (PE) of Narmada Residency-II (50 Nos of Staff Flats). The Institute's Campus is in a remote area which is about 20 Kms away from Jabalpur city. Further no public conveyance is being operated on the route to the Institute. Hence, an urgent need for staff quarters has been felt. In view of the immediate requirement, the committee recommended construction of Narmada Residency-II (50 Nos of staff flats) with a **Preliminary Estimates of Rs. 1598 Lakhs (Rs. One thousand five hundred ninety eight lakhs only)** including Architects Fee @ 5% + service tax as applicable on fee and 3% contingencies.

The committee requests the Finance Committee to recommend the above work to the BOG for Administrative Approval and Financial Sanction (A/A & F/S).

B&WC/2010: 01:04 **To consider the Preliminary Estimates for the work of Construction of Narmada Residency-III (60 Nos Staff Flats)**

The design concept, architectural drawing and the estimate amounting to Rs. 2563 lakhs for Narmada Residency- III was discussed. It was felt that the amount for construction of 60 Nos of Flats is higher compared to the local cost. However, the AE, CPWD explained that the preliminary estimates are computed on the basis of Delhi plinth area rates, adding cost index applicable for Jabalpur and cost reduction is possible only when there is a change in drawing. Other special

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invitees from CPWD also informed the members that cost is normally reduced substantially when the detailed estimates are prepared at the time of the tendering process. The Institute had also approached the Architect to suggest possible changes in the design and drawing in order to reduce the cost. In response to this, a separate estimate alongwith modified drawings was sent by the Architect. The same was put up on the table for discussion. The drawings had essentially the same concept. However, the corridors' width in each floor was reduced to 2.4 meter from the original 3.05 meters. Further, the length of Toilet, Bedroom-1, Dining and Kitchen was also reduced by 0.6 meter. This resulted in a reduction of cost upto Rs. 359.42 lakhs approximately. The B&WC discussed at length the revised concept drawings, design, specifications and preliminary estimates of the modified Narmada Residency-III (60 Nos of Staff Flats). After deliberations, the committee recommended the construction of Narmada Residency-III (60 Nos of Staff Flats) with a modified **Preliminary Estimates of Rs. 2203.58 Lakhs (Rs. Two thousand two hundred and three point five eight lakhs only)** including Architects Fee @ 5% + service tax as applicable on fee and 3% contingencies.

The committee requests the Finance Committee to recommend the above to the BOG for Administrative Approval and Financial Sanction.

B&WC/2010: 01:05 **To consider the Preliminary Estimates for the work of Construction of Road Network of Academic Area (Phase-I)**

Shri S.K. Chawla, Executive Engineer CPWD (Special Invitee) and Shri J.P. Singh, AE, CPWD (Special Invitee) informed the Committee that certain clarifications sought from the Architect have not been received so far, hence, the preliminary-cum-detailed estimates for the same have not been finalized. Therefore, the committee arrived at a decision to consider this work in the next meeting.

B&WC/2010: 01:06 **To consider the Preliminary Estimates for the work of External Electrification & Lighting (Phase-I)**

The B&WC has decided to consider this work also in the next B&WC meeting as the modified estimates (incorporating suggestions by CPWD to the Architect) put on table are likely to be altered in accordance with the Road Network (item B&WC/2010 :01:05).

B&WC/2010: 01:07 **To consider the Preliminary Estimates of External HT Line.**

The estimates for the above said work has not been received from Madhya Pradesh Poorva Kshetra Vidhyut Vitran Company Ltd, but on telephonic discussion with the Superintending Engineer(O&M), MPPKVCL on 20 February 2010 it has been assured that the estimates has been lying in the Corporate Office and the Value of estimate is likely to be the same as forwarded by SE(O&M) Office i.e. Rs. 1,31,14,268/- (Rs. One Crore thirty one lakhs fourteen thousand two hundred sixty eight only).

The B&WC recommended the PE for the External HT line to the Finance Committee for the amount of Rs. 1,31,14,268/- (One Crore thirty one lakhs fourteen thousand two hundred sixty eight only) to further recommend to the Board of Governors for A/A & F/S.

B&WC/2010: 01:08 **To review the Progress of Hall of Residence I (SH : Civil & Electrical).**

The committee was informed in detail about the above said work in respect of physical and financial progress. The following details were brought to the notice of the committee:

A/A & E/S:	Rs. 1192.00 Lakhs (including electrical)
Tendered Amount for civil works:	Rs. 1049.41 Lakhs
Paid bill amount till date:	Rs. 919.573 Lakhs
Balance Work:	Rs. 129.84 Lakhs
Performance Guarantee:	Rs. 52.47 Lakhs
Security Deposit:	Rs. 43.72 Lakhs
Withheld Amount against delay:	Rs. 24.65 Lakhs

It was informed to the members that the agency is repeatedly requesting for release of security deposit of Rs. 43.72 lakhs against Bank Guarantee to augment the remaining construction work and is also requesting to grant extension of time up to 31st May 2010 for completing the work. The agency claims to have financial crisis and hence is unable to perform.

The matter was discussed in details by the Committee members, the provisions of Section 20 of CPWD Manual, and the provision in agreement were also taken into consideration and finally the Committee recommended the following:


- To grant provisional time extension upto 31st May 2010. The final time extension shall be granted only after the completion of work duly considering the reasons of delay.
- The security deposit amount may be released in lieu of bank guarantee in two parts that too after taking an affidavit from the agency that the released amount will solely be used for advancing the work of construction of the said Hall of Residence I and that the agency will complete the work within the provisionally extended time. It has also been suggested that Bank Gurantee should be from a Nationalized Bank and it should have validity for a period atleast extending three months beyond the defects liability period, i.e. atleast for fifteen months.

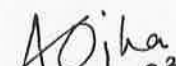
The Building and Works Committee forwarded the above recommendation to the Finance Committee.

B&WC/2010: 01:09 **Any Other item with the permission of Chair**

No other matter was discussed and the meeting concluded with a vote of thanks to the Chair, other special invitees and members.

Submitted for approval

for

 23.2.10.
 Shri R.P. Dwivedi, Secretary


 23-2-2010
 Prof. Aparajita Ojha, Chairperson

ANNEXURE
B&WC/2010/21A-2

Preliminary Estimate for the work of
Construction of Triple Seated Hall of
Residence 2

(Page P-11 to P-18)

<u>SPECIFICATION:</u>	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.
Cost: -	Rs. 21, 96, 91,626/- including, 22% C.I., 3% Contingencies and including consultancy fee.
W.C. Est.:-	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: -	20 Months.



PROJECT: PROPOSED 3 SEATER HOSTEL BLOCK FOR IIIT, JABALPUR

CLIENT: INDIAN INSTITUTE OF INFORMATION TECHNOLOGY DESIGN AND MANUFACTURING (IIITDM), JABALPUR

ARCHITECTS : DATTA AND DATTA ASSOCIATES, 101, SNEH SHILP, 66 SWASTIK SOCIETY, NAVRANGPURA, AHMEDABAD- 380 009

Preliminary Estimate Based on CPWD Plinth Area Rates 2007 for 3 Seater Hostel Block at IIIT, Jabalpur

ABSTRACT OF COSTS FOR HOSTEL BLOCK FOR IIIT AT JABALPUR

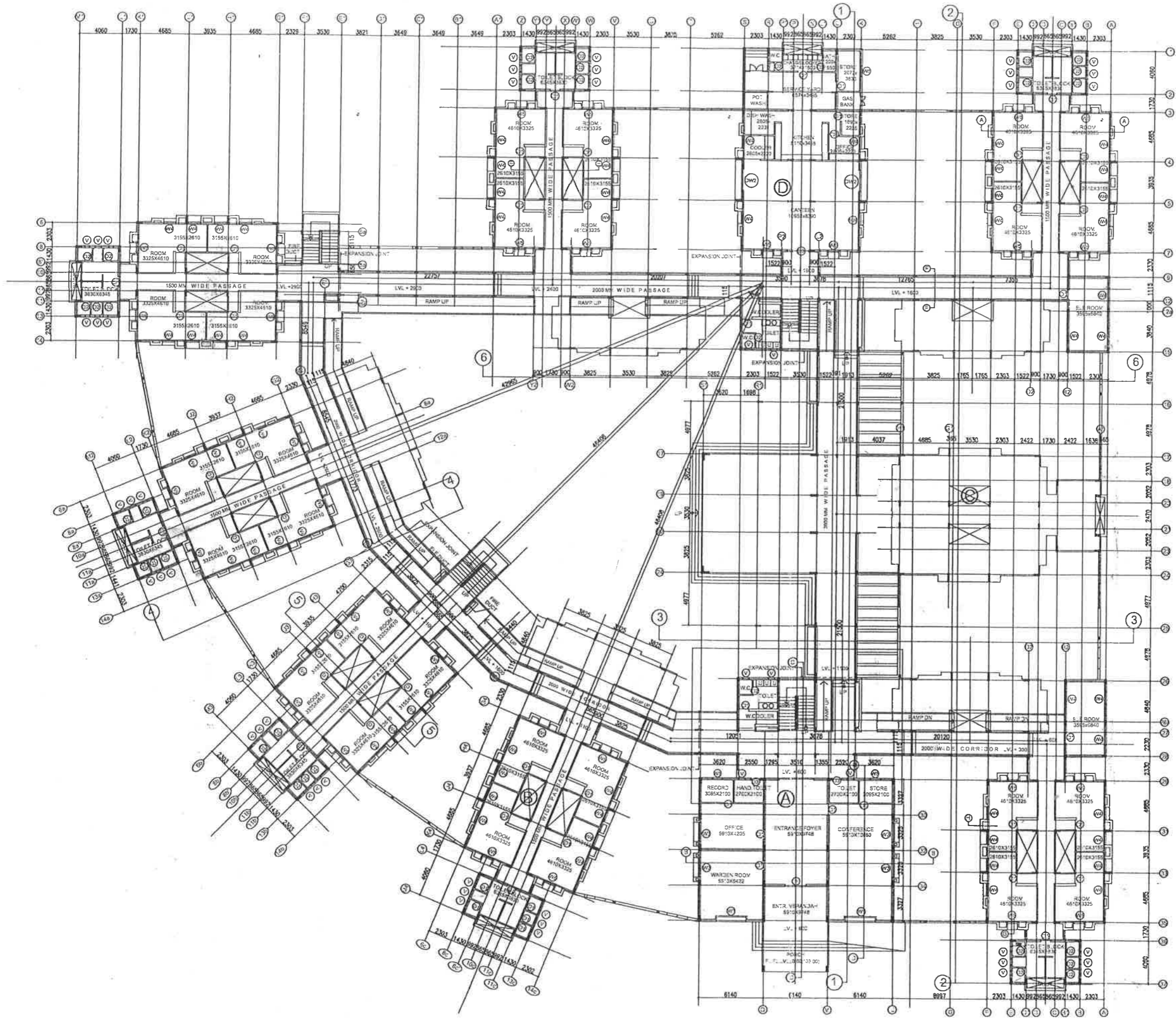
SR.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
1.0	R.C.C. FRAMED STRUCTURE				
1.1	R.C.C.framed structure up to six storeys				
1.1.2	Floor height 2.90 Mt.	Smt	11,897.68	9100.00	108268888.00
1.2	Extras for				
1.2.3	Every 0.30 mt additional height of floor above normal floor height of 3.35 mt./2.90 mt.	Smt	11,897.68	150.00	1784652.00
1.2.4	Every 0.30 mt higher plinth over normal plinth height of 0.60 mt (1.20 mt ht.)	Smt	2,496.44	150.00	374466.00
1.2.5	every 0.30 mt deeper foundations over normal depth of 1.20 mt(2.00 mt depth)	Smt	3,357.20	150.00	503580.00
1.2.8	Resisting earthquake forces	Smt	11,897.68	630.00	7495538.40
1.2.11	Stronger structural members to take heavy load above 500 Kgs./sqm. Up to 1000 Kgs./sqm. (for water tank slab)	Smt	100.92	850.00	85782.00
1.2.12	Larger modules over 35 sqm.	Smt	352.80	990.00	349272.00
1.4	FIRE FIGHTING				
	With wet riser system	Smt	11,897.68	300.00	3569304.00
	Total (A)				122431482.40
3.0	SERVICES				
	SANITARY AND PLUMBING				
3.1	Internal water supply and sanitary installations	%	108,268,888.00	10.00	10826888.80
3.2	External service connections	%	108,268,888.00	5.00	5413444.40
3.3	Internal Electric Installation	%	108,268,888.00	12.50	13533611.00
3.6	Extra for				
3.6.3	Lightening conductors				
3.6.3.1	Upto 4 storeys Building	%	108,268,888.00	0.50	541344.44
3.6.4	Telephone Conduits	%	108,268,888.00	0.50	541344.44
3.6.6	Computer Conduiting	%	108,268,888.00	0.50	541344.44
3.6.7	Quality assurance	%	108,268,888.00	1.00	1082688.88

SR.	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	Total (B)				32480666.40
5.0	WATER TANK (RCC ONLY)				
5.1	R.C.C. Over head water tank without independent staging	Lit	18,000.00	9.00	162000.00
5.5	Under ground sump	Lit	18,000.00	9.00	162000.00
	501 students x 135 litre =67635 litre canteen 40 students x 70 litre = 2800 litre kitchen for 40 students x 70 litre = 2800 litre				
	Total (C)				324000.00
6.0	DEVELOPMENT OF SITE				
6.1	Levelling (Plot area 10000 Sqmt)	Sqm	10,000.00	55.00	550000.00
	Total (D)				550000.00
7.0	EXTRA RICHER SPECIFICATION				
	Additional for Kota Stone Flooring (DSR ITEM CODE 11.26.1(694.40) - DSR ITEM CODE 11.10.1(318.25) = 376.15)	Sqm	11,197.68	376.15	4212007.33
	Additional for Vitrified Flooring (DSR ITEM CODE 11.41.2(1031.85) - DSR ITEM CODE 11.10.1(318.25) = 713.60	Sqm	700.00	713.60	499520.00
	Additional For Alluminium Window (DSR ITEM CODE 21.1.2.2(318.25) - DSR ITEM CODE 10.15(92.25) = 226.00	kg	25,000.00	226.00	5650000.00
	Additional for Solar Water Heater	L.S			2500000.00
	Additional For Energy Saving Fixture & Modular Switching	%	108,268,888.00	1.50	1624033.32
	Total (E)				14485560.65
	TOTAL (A+B+C+D+E)				170271709.45
	Cost Escalation @ 22% (F)	%	170,271,709.45	22.00	37459776.08
	TOTAL (A+B+C+D+E+F)				207731485.53
	Contigencies @ 3% (G)	%	207,731,485.53	3.00	6231944.57
	TOTAL (A+B+C+D+E+F+G)				213963430.10
	Architect Fees @ 2.5 %	%	207,731,485.53	2.7575	5728195.71
	GRAND TOTAL				219691625.81

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 3) ANY DISCREPANCY IN THE DRAWINGS SHOULD BE BROUGHT TO THE NOTICE OF THE ARCHITECTS.

DOORS & WINDOWS SCHEDULE				
NO	SIZE	SKL	LINTLE	NOS
DOORS :				
D1	600 X 2550		2550	46
D2	750 X 2100			47
D3	800 X 2550			62
DW1	59'00" X 2550			01
DW2	3705 X 2400			02
	852 X 2250 X 2			
WINDOWS :				
W1	2850 X 1650	800	2650	02
W3	1800 X 1650	800	2650	04
W4	1500 X 1650	800	2550	66
W5	1500 X 1650	800	2550	33
VENTILATION :				
V	600 X 600	1900	2100	48



REV. NO	DATE	PARTICULAR
R E V I S I O N		

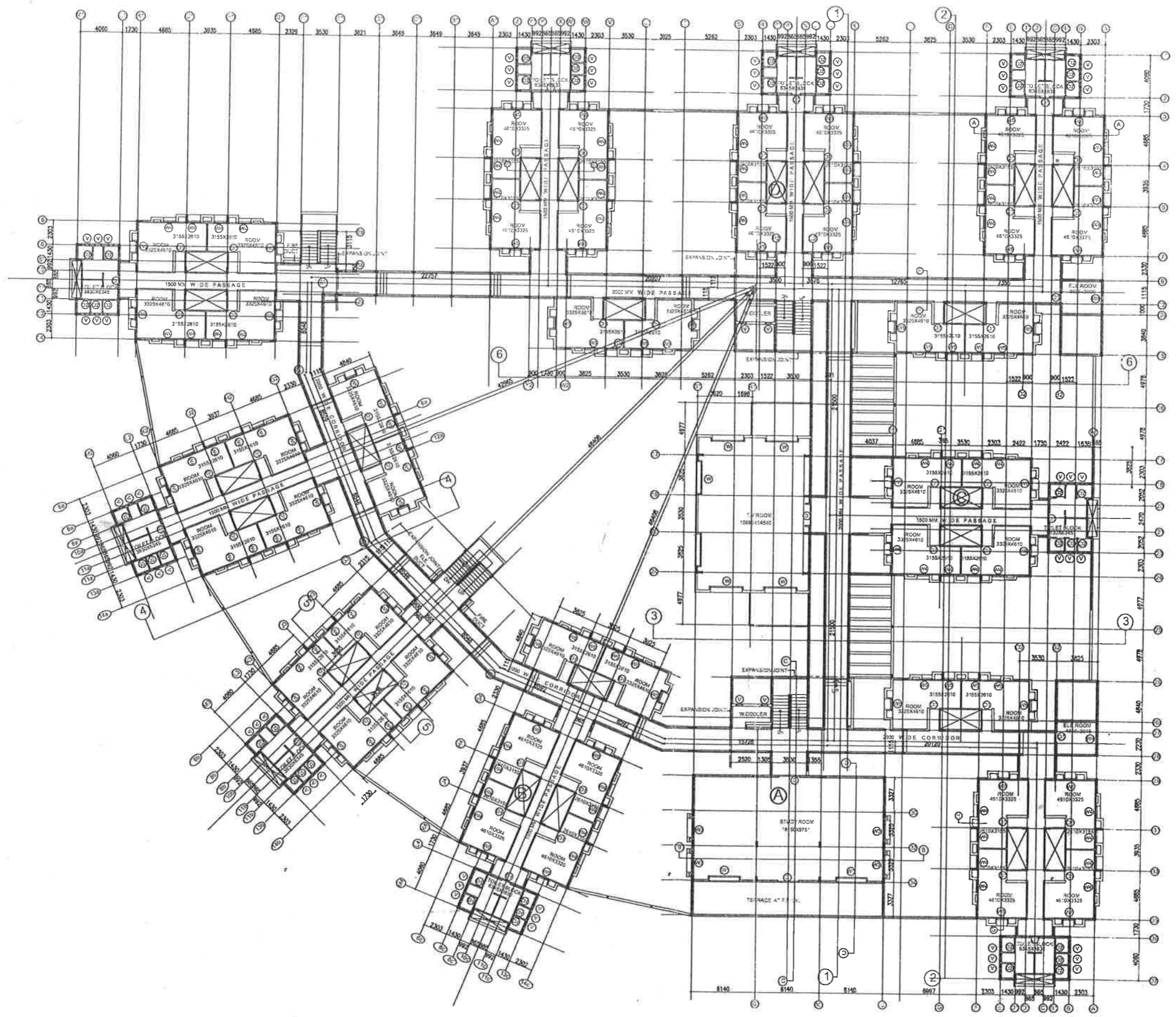
TITLE:
 GROUND FLOOR PLAN
 PRELIMINARY DRAWING

PROJECT:
 CONSTRUCTION OF TRIPLE SEATED
 HALL OF RESIDENCE-I
 FOR PDPM IIITDM AT JABALPUR

SCALE:- 1:250	DRG. NO	NORTH
DATE:- 30-11-08	W-01	
DEALT:- MUKESH		
CHECK:-		

File:
 DATTA AND DATTA ASSOCIATES
 ARCHITECTS, ENGINEERS, TOWN PLANNERS & INTERIOR DESIGNERS

101 SHESHILP, 66 SWASTIK SOCIETY, BHAYANGPURA, AHMEDABAD - 380005
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- 1) ALL MEASUREMENTS ARE IN MM.
- 2) ALL MEASUREMENTS ARE TO BE READ & NOT TO BE MEASURED.
- 3) ANY DISCREPANCY IN THE DRAWINGS SHOULD BE BROUGHT TO THE NOTICE OF THE ARCHITECT.

DOORS & WINDOWS			
NO.	S. P.	S.	W. S.
DOORS			
D	2000 X 2500	800	2500
D1	800 X 2500	800	2500
D2	1800 X 2100	800	2100
WINDOWS			
W	3000 X 1650	800	1650
W1	2800 X 1650	800	1650
W2	2000 X 1650	800	1650
W3	2200 X 1650	800	1650
W4	1000 X 1650	800	1650
VEHICLE			
V	800 X 600	500	2100

REV. NO.	DATE	PARTICULAR
R	E </td <td>V</td>	V
I	S	I
O	N	

TITLE:
TYPICAL FLOOR PLAN (1st 2nd 3rd)
PRELIMINARY DRAWING

PROJECT:
CONSTRUCTION OF TRIPLE SEATED
HALL OF RESIDENCE-I
FOR PDPM IITDM AT JABALPUR

SCALE:- 1:250	DRG. NO	NORTH
DATE:- 19-05-10	W-02	
DEALT:- MUKESH		
CHECK:-		

DATTA AND DATTA ASSOCIATES
ARCHITECTS, ENGINEERS, TOWN PLANNERS & INTERIOR DESIGNERS

101 SHESHUP, 86 SHRIK SOCIETY, HARWAPURA, AHMEDABAD - 380005
PHONE - (079) - 26407248, TELE FAX : (079) - 26401242.
E-Mail : ddarchitects@gmail.com, datta_datta@hotmail.com

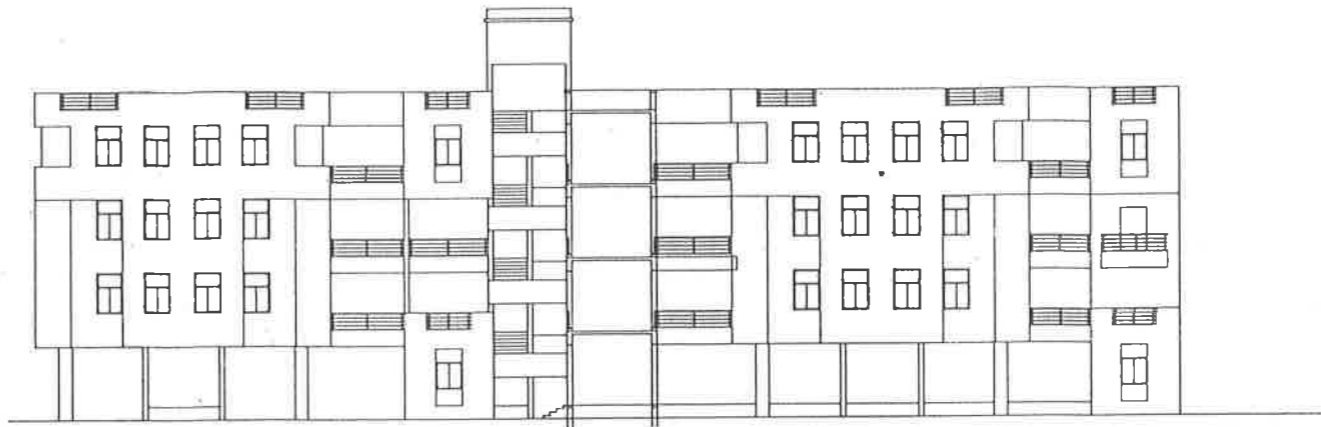
THIS DRAWING IS THE PROPERTY OF THE ARCHITECTS DATTA AND DATTA ASSOCIATES AND NOT TO BE COPIED OR USED WITH OUT THEIR PERMISSION

NOTES :

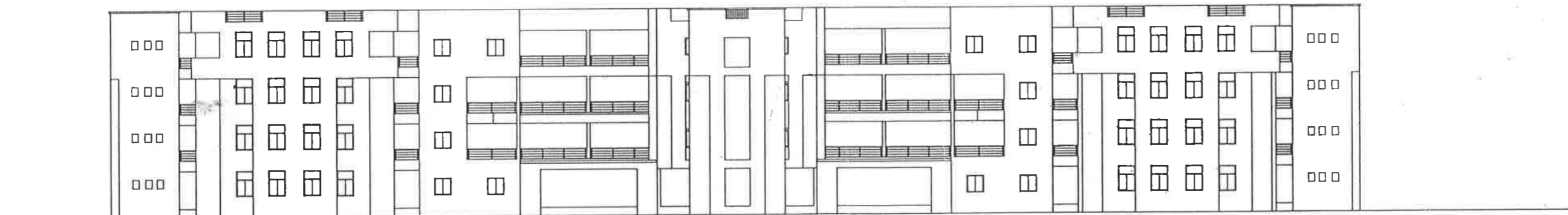
- 1) ALL MEASUREMENTS ARE IN MM
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- 3) ANY DISCREPANCY IN THE DRAWINGS SHOULD BE BROUGHT TO THE NOTICE OF THE ARCHITECTS.



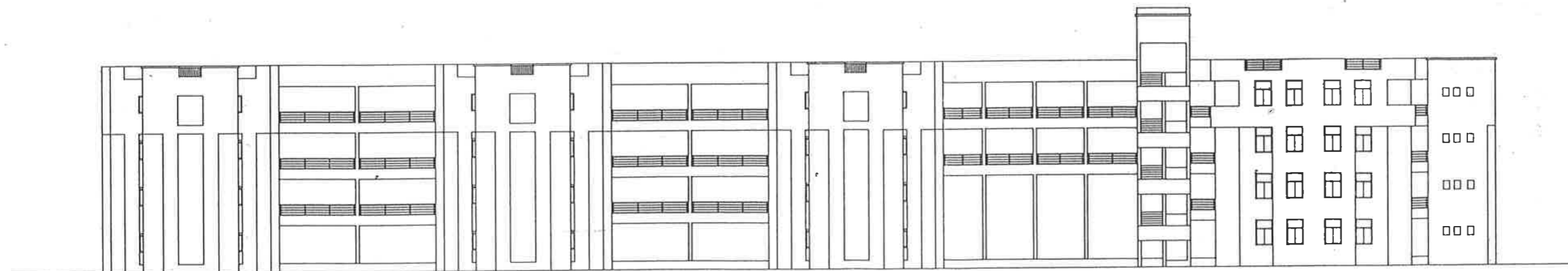
FRONT ELEVATION (ENTRANCE)



SECTIONAL ELEVATION 6-6



RIGHT SIDE ELEVATION



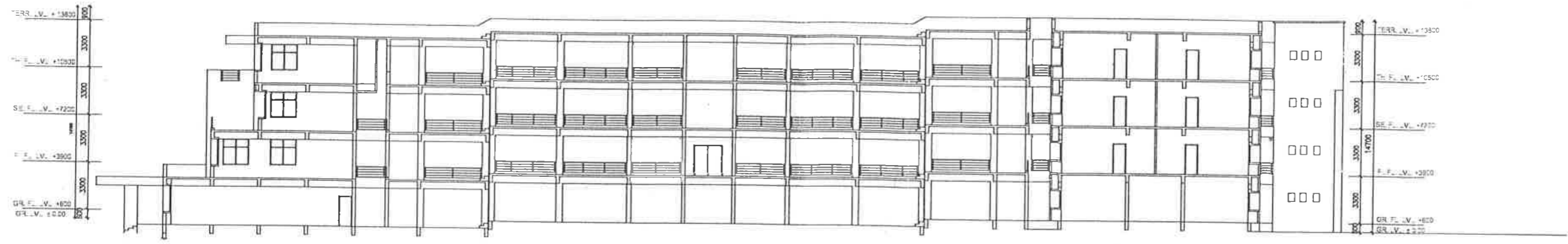
REAR ELEVATION

REV. NO.	DATE	PARTICULAR
R E V I S I O N		
TITLE: ELEVATIONS PRELIMINARY DRAWING		
PROJECT: INDIAN INSTITUTE OF INFORMATION TECHNOLOGY AT JABALPUR		
SCALE:-	1:200	DRG. NO
DATE:-	19-05-10	NORTH
DEALT:-	MUKESH	W-03
CHECK:-		
File:		
DATTA AND DATTA ASSOCIATES ARCHITECTS, ENGINEERS, TOWN PLANNERS & INTERIOR DESIGNERS		
101 SHEKHARP, 66 SHIKH SOCIETY, NHANQPURA, AHMEDNHO - 380008 PHONE - (079) - 26407248, TELE FAX : (079) - 26401242. E-Mail : ddaarchitects@gmail.com, datta_datta@hotmail.com		

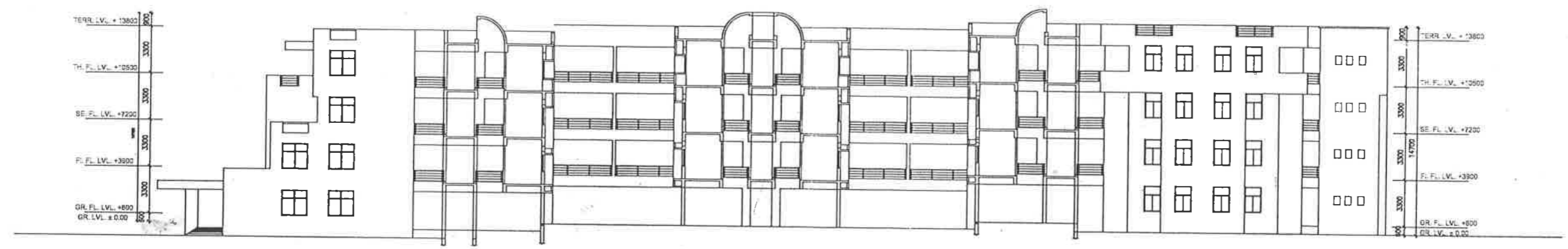
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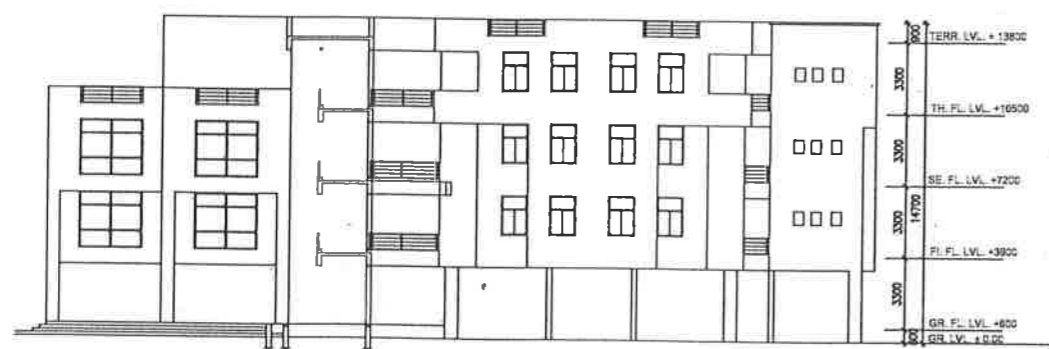
- 1) ALL MEASUREMENTS ARE IN MM
- 2) ALL MEASUREMENTS ARE TO BE READ & NOT TO BE MEASURED.
- 3) ANY DISCREPANCY IN THE DRAWINGS SHOULD BE BROUGHT TO THE NOTICE OF THE ARCHITECTS.



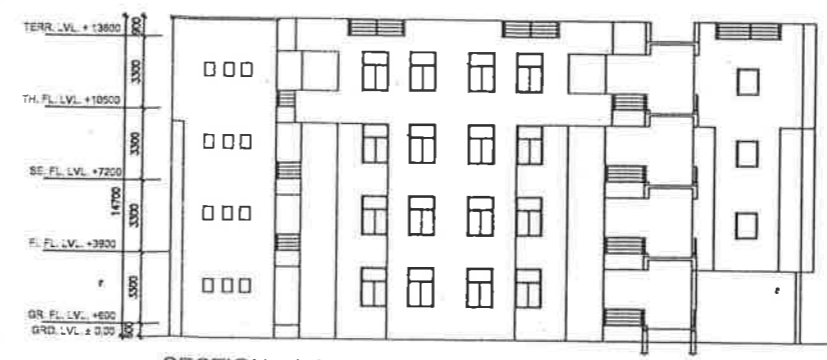
SECTION - 1-1



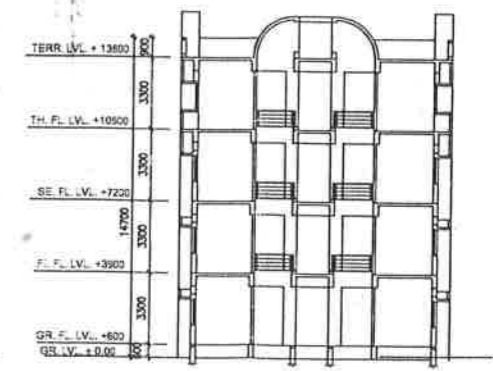
SECTION - 2-2



SECTION - 3-3



SECTION - 4-4



SECTION - 5-5

REV. NO	DATE	PARTICULAR
R E V I S I O N		

TITLE:
**SECTIONS
PRELIMINARY DRAWING**

PROJECT:
**INDIAN INSTITUTE OF
INFORMATION TECHNOLOGY
AT JABALPUR**

SCALE:- 1:200 DRG. NO NORTH

DATE:- 19-05-10 W-04

DEALT:- MUKESH

CHECK:-

File:

DATTA AND DATTA ASSOCIATES
ARCHITECTS, ENGINEERS, TOWN PLANNERS & INTERIOR DESIGNERS

101 SHEKHAR, 86 SWASTIK SOCIETY, MANAMPURA, AMETHIABAD - 380008
PHONE - (079) - 26407248, TELE FAX : (079) - 26401242,
E-Mail : ddsarchitects@gmail.com, datta_datta@hotmail.com

ANNEXURE
B&WC/2010/21A-3

Preliminary Estimate for the work of
Construction of Visitors Hostel

(Page P-19 to P-37)

Sub: PE for Construction of Visitor Hostel, IIIT DM at Jabalpur

Major Head: Minor

Head: Detailed Head:

The Visitor Hostel is designed for a capacity of 30 Rooms & 6 Suites, supported by a Facilities Block comprising Lounge, Dining, Kitchen and Meeting/ Conference rooms. The building is sited on relatively higher ground in order to maximize on view. Provision is kept for future expansion.

This P E amounting to Rs.10,78,36,789/- (Rs. Ten crores, seventy eight lacs, thirty six thousand seven hundred and eighty nine only) including 22% cost index, 3% contingency and 5% Architect's fees, has been framed by M/s Kanvinde Rai & Chowdhury. This estimate has been framed as per demand raised by PDPM-IIITDM Jabalpur.

History: This preliminary Estimate amounting to 10,78,36,789/- (Rs. Ten crores, seventy eight lacs, thirty six thousand seven hundred and eighty nine 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.

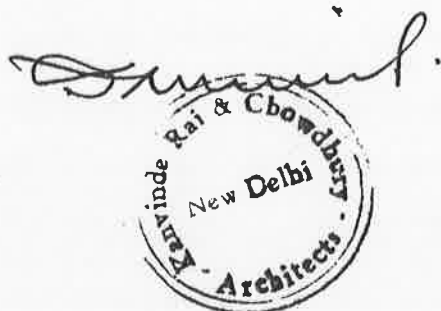
Design & Scope: - The estimate has been framed based on the following architectural drawings:

- 1 Site Plan/ Location Plan - VH-01
- 2 Ground Floor Plan - VH-02
- 3 First Floor Plan - VH-03
- 4 Second Floor Plan - VH-04
- 5 Third Floor Plan - VH-05
- 6 Sections & Elevations - VH-06
- 7 Area Statement - VH-07

The estimate includes construction of Visitor Hostel with following specifications:

- 1 Four and two storied RCC framed structure.
- 2 Brick infill 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, Vitrified tiles for Guest Rooms, toilets, public areas, Granite for lobby areas.
- 10 Air-conditioning using VRV system.
- 11 Automatic Fire alarm system & wet riser system.
12. Energy Efficient features:
 - a. Cavity walls with insulation.
 - b. Insulated glass.
 - c. Roof insulation with false ceiling.
 - d. 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 : Plinth area rates 2007 duly enhanced by Cost Index of 122 as approved.
Cost 10,78,36,789/- (Rs. Ten crores, seventy eight lacs, thirty six thousand seven hundred and eighty nine only)
Land : available with client
W.C.
Estt :
T&P :
Method : Through CPWD
Time : 15 months

Summit.



Name of work :- Visitor Hostel, IIIT DM, Jabalpur

Brief Specifications

Sl No.	Description	Specification
1.	Foundation	Isolated/combined footings for RCC columns at 1.50 meter depth from general ground level and load bearing capacity of soil 10 T/Sqm.
2.	Super Structure	
2.1	Structure	RCC frame (G+3) structure with brick masonry cavity filler walls of ghole modular bricks of class designation 50 with insulation
2.2	Internal partitions	Half brick masonry walls with ghole modular bricks of class designation 50.
3	Door & Windows	
3.1	Frames	Anodised aluminium double rebated frames for doors,windows/ventilators,
3.2	Door shutters.	Rooms - 35 mm thick flush door shutters with veneer ply on both faces and stainless steel fittings.
		25 mm thick flush door shutters one side decorative other side balancing lamination for cupboards
		35 mm 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	25 mm thick Kota stone in pattern with marble bands, with 100 mm high skirting.
4.3	Rooms and Dining hall	Vitrified tiles of 600 x 600 mm in floor and 100 mm high vitrified tile skirting
4.4	Platforms	18 mm thick Granite stone on pantry and wash basin counter. Kitchen to be provided with S.S. kitchen equipment; not in this scope
4.5	Toilets	Non- skid vitrified tile flooring and ceramic tiles dado on walls of toilets.
4.6	Kitchen/Wash/Stores	Polished flooring and ceramic tile dado in kitchen

Sumit



Sl No.	Description	Specification
4.7	Stair Case	Single piece 18 mm thick granite in treads & risers with anti skid grooves in treads.
4.8	Open Court yard	Paver blocks & natural stone as per architectural drawings.
5.	Railing.	Modular Stainless steel railing in stair case.
6.	Roofing	
6.1	Roof treatment	Roof insulation with Cement based integral water proofing treatment & China mosaic finish
7.	Finishing.	
7.1	External	Exposed aggregate plaster/Sand face Plaster with Premier acrylic exterior paint.
7.2	Internal	Plastic emulsion finish over 2 mm thick plaster of paris punning.
7.3	Painting.	Spirit polish/Synthetic enamel paint on all wood work
8.	Sanitary Fittings.	White vitreous china oval shaped wash basin with granite platform in guest rooms. WC pan with low level PVC flushing cistern and CP brass toilet fixtures.
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

EE(P)I
Central Zone,
CPWD, Bhopal

SE(P)
Central Zone,
CPWD, Bhopal

Sumit



PRELIMINARY ESTIMATE FOR VISITOR HOSTEL, PDPM IIIT DM, JABALPUR	
GRAND SUMMARY	
S.No.	Amount in Rs.
1	59741128
2	39482595
Sub Total	99223723
3	2976712
Total	102200435
4	5636354
GRAND TOTAL	107836789



Kanvinde Rai & Chowdhury
New Delhi



NAME OF WORK : VISITOR HOSTEL, PDPM IIT DM, JABALPUR
Preliminary Estimate based on CPWD Plinth Area Rates 2007 & MR.

(1) GUEST ROOM BLOCK

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

SL. NO.	Code	Description	Unit	Qty.	Rate	Amount	Remark
1	1	RCC Framed Structure :					
1.1		RCC framed structure up to six storeys					
1.1.2		Floor height 2.9 m	Sqm	2355	9100	21430500	
1.2		Extra for :					
1.2.3		For 0.70 m additional height of floor above 2.9 m	Sqm	1830	350	640500	
		For 1.10 m additional height of floor above 2.9 m	Sqm	625	550	343750	
		For 1.30 m additional height of floor above 2.9 m	Sqm	50	650	32500	
1.2.5		Extra .30 mt. deeper foundation over normal depth of 1.20 metre.(on G.F. area only)	Sqm	695	150	104250	
1.2.8		Resisting Earthquake forces	Sqm	2355	630	1483650	
1.2.12		Larger modules over 35 sqm.	Sqm	1130	990	1118700	
5.1		Overhead tank without independent staging	Ltr	7500	9	67500	
1.4		Fire fighting					
1.4.1		With wet riser system	Sqm	2355	300.00	706500	
Total A						Rs. 25927850	
Building Cost (sl. No.1)						Rs. 21430500	
3 Services :							
3.1		Internal water supply and sanitary installation		21430500	15%	3214575	
3.2		External service connections		21430500	5%	1071525	
3.3		Internal electric installations		21430500	12.5%	2678813	
3.6		Extra for :					
3.6.1		Power wiring & plugs.		21430500	4.00%	857220	
3.6.2		central call bell system		21430500	1.00%	214305	
3.6.3.1		Lightning conductor (upto 4 storeys)		21430500	0.5%	107153	
3.6.4		Telephone conduits		21430500	0.5%	107153	
3.6.6		Computer conduiting		21430500	0.5%	107153	
3.6.7		Quality assurance		21430500	1.0%	214305	
1.5.2		Automatic Fire Alarm System		2355	300.00	706500	
MR		Extra for modular switches & Energy savings fixture		21430500	1.5%	321458	
Total B						Rs. 9600158	



Site Development													
19	6.1	Leveling	Sqm.	2700	55.00							148500	
20	6.2	Internal roads and paths	Sqm.	2700	83.00							224100	
21	6.3	Sewer	Sqm.	2700	63.00							170100	
22	6.4.3	Unfiltered water supply	Sqm.	2700	27.00							72900	
23	6.5	Storm water drain	Sqm.	2700	50.00							135000	
24	6.6	Horticulture Operations	Sqm.	2700	47.00							126900	
	6.7	External Lighting											
25	6.7.3	With HPSV lamps	Sqm.	2700	95.00							256500	
		Total C									Rs.	1134000	
		Energy Efficient Features (Civil)											
26	MR	Extra for 300 mm cavity wall with insulation	Sqm.	1170	440.00							514800.00	Analysis enclosed
27	MR	Extra for China mosaic on roof	Sqm.	780	232.00							180960.00	Analysis enclosed
28	DSR 12.34	Under deck insulation	Sqm.	780	378.32							295091.16	DSR Rate (310.10)+22% enhancement
29	MR	Extra for Insulated glass	Sqm.	353	2924.00							1032903.00	Analysis enclosed
30	MR	Extra for high performance glass	Sqm.	118	1501.00							176742.75	Analysis enclosed
		Total D									Rs.	2200496.91	
		Extra for additional specifications & Architectural features											
31	DSR 11.41.2 & 11.10.1	Extra for vitrified tiles flooring	Sqm.	1220	870.59							1062122.24	DSR Rate (1031.85 - 318.25) +22% enhancement
32	DSR 11.36	Extra for Ceramic tiles upto 2100 mm height in toilet	Sqm.	750	679.05							509289.00	DSR Rate (556.60) +22% enhancement
33	DSR 11.23.5 & 11.10.1	Extra for marble flooring	Sqm.	90	969.05							87214.14	DSR Rate (1112.55 - 318.25) +22% enhancement
34	DSR 11.26.1 & 11.10.1	Extra for Kota stone in balcony/rooms etc	Sqm.	320	458.90							146848.96	DSR Rate (694.4 - 318.25) +22% enhancement
35	DSR 11.26.1	Extra for Kota stone in window sill / parapet top etc.	Sqm.	-165	847.17							139782.72	DSR Rate (694.4) +22% enhancement




36	DSR 12.45.1	12.5mm Gypsum board false ceiling	Sqm.	1000	612.56	612562.00	DSR Rate (502.10)+22% enhancement
37	Analysis based on DSR & 10.15	Extra for Aluminium Door frames	Sqm.	240	969.00	232560.00	Analysis enclosed
38	DSR 21.1.2.1	Extra for using aluminium windows	Kg	4710	266.20	1253820.84	DSR Rate (310.45 -92.25) +22% enhancement
39	MR	Extra for stainless steel railing	Metre	340	9633.00	3275220.00	Analysis enclosed
40	MR	Extra for Anti termite treatment	Sqm.	695	114.00	79230.00	Analysis enclosed
41	MR	Extra for mortice lock	Each	52	3468.00	180336.00	Analysis enclosed
42	DSR 9.84	Extra for hydraulic door closer	Each	44	1111.54	48907.85	DSR Rate (911.10) +22% enhancement
43	DSR 8.6	Mirror polish on stone work.	Sqm.	810	114.92	93088.44	DSR Rate (94.2) +22% enhancement
		Total E				Rs. 7720982.19	
44	MR	Air Conditioning work Air Conditioning works (VRV system)	Tonne	65	43000.00	2795000	
		Total F				Rs. 2795000	
45	MR	Solar Water heating Solar Water heating (1800 Ltr.)	LS			650000	
		Total G				Rs. 650000	
46	4 4.1.1.9	Passenger Lift Passenger Lift (G+4) for 8 persons		1	1350000.00	1350000	
		Total H				Rs. 1350000	
		Total A+B+C+D+E+F+G+H				51378487	




(1) PRELIMINARY ESTIMATE FOR GUEST ROOM BLOCK

SUMMARY OF COST

S.No.	Description	Amount in Rs.
1	Framed Structure including services (A+B+C+H)	38012008
2	Enhancement over DPAR 22%	8362642
3	Energy Efficient Features (D)	2200497
4	Extra for additional specifications & Architectural features (E)	7720982
5	Air Conditioning work (F)	2795000
6	Solar Water heating (G)	650000
	Total	59741128

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NAME OF WORK : VISITOR HOSTEL, PDPM IIIT DM, JABALPUR
Preliminary Estimate based on CPWD Plinth Area Rates 2007 & MR.

(2) FACILITIES BLOCK						
SL. NO.	Code	Description.	Unit	Qty.	Rate	Amount
I : Civil Work (Based on CPWD Plinth Area Rates 2007 with C.I. = 122 & MR						
	1	RCC Framed Structure :				
	1.1	RCC framed structure up to six storey's				
1	1.1.1	Floor height 3.35 m	Sqm	1315	13200	17358000
	1.2	Extra for :				
	1.2.3	For 1.30 m additional height of floor above 2.9 m	Sqm	975	650	633750
		For 1.75 m additional height of floor above 2.9 m	Sqm	420	875	367500
3	1.2.5	Extra .30 mt. deeper foundation over normal depth of 1.20 metre.(on G.F. area only)	Sqm	975	150	146250
4	1.2.8	Resisting Earthquake forces	Sqm	1315	630	828450
5	1.2.12	Larger modules over 35 sqm.	Sqm	885	990	876150
	1.4	Fire fighting				
6	1.4.1	With wet riser system	Sqm	1315	300.00	394500
		Total A				Rs. 20604600
		Building Cost (sl. No.1)				17358000
	3	Services :				
7	3.1	Internal water supply and sanitary installation		17358000	10%	1735800
8	3.2	External service connections		17358000	5%	867900
9	3.3	Internal electric installations		17358000	12.5%	2169750
	3.6	Extra for :				
10	3.6.1	Power wiring & plugs.		17358000	4.00%	694320
11	3.6.2	central call bell system		17358000	1.00%	173580
12	3.6.3.1	Lightning conductor (upto 4 storeys)		17358000	0.5%	86790
13	3.6.4	Telephone conduits		17358000	0.5%	86790
14	3.6.6	Computer conduiting		17358000	0.5%	86790
15	3.6.7	Quality assurance		17358000	1.0%	173580
16	1.5.2	Automatic Fire Alarm System		1315	300.00	394500
17	MR	Extra for modular switches & Energy savings fixture		17358000	1.5%	260370
		Total B				Rs. 6730170



		Site Development									
18	6.1	Levelling						4100	55.00	225500	
19	6.2	Internal roads and paths	Sqm.				4100	83.00		340300	
20	6.3	Sewer	Sqm.				4100	63.00		258300	
21	6.4.3	Unfiltered water supply	Sqm.				4100	27.00		110700	
22	6.5	Storm water drain	Sqm.				4100	50.00		205000	
23	6.6	Horticulture Operations	Sqm.				4100	47.00		192700	
		External Lighting									
24	6.7.3	With HPSV lamps	Sqm.				4100	95.00		389500	
		Total C								Rs. 1722000	
		Energy Efficient Features (Civil)									
25	MR	Extra for 300 mm cavity wall with insulation	Sqm.	540				440.00		237600.00	Analysis enclosed
26	MR	Extra for China mosaic on roof	Sqm.	940				232.00		218080.00	Analysis enclosed
27	DSR 12.34	Under deck insulation	Sqm.	760				378.32		287524.72	DSR Rate (310.10)+22% enhancement
28	MR	Extra for Insulated glass	Sqm.	197				2924.00		576759.00	Analysis enclosed
29	MR	Extra for high performance glass	Sqm.	66				1501.00		98690.75	Analysis enclosed
		Total D								Rs. 1418654.47	
		Extra for additional specifications & Architectural features									
30	DSR 12.45.1	12.5mm Gypsum board false ceiling	Sqm.	500				612.56		306281.00	DSR Rate (502.10)+22% enhancement
31	MR	Extra for pergola	Sqm.	100				2394.00		239400.00	Analysis enclosed
		Total E								Rs. 545681.00	
		Air Conditioning work									
32	MR	Air Conditioning works (VRV system)	Tonne	33				43000.00		1419000	
		Total F								Rs. 1419000	
		Solar Water heating									
33	MR	Solar Water heating (1800 Ltr.)	LS							650000	
		Total G								Rs. 650000	
		Total A+B+C+D+E+F+G								33090105	

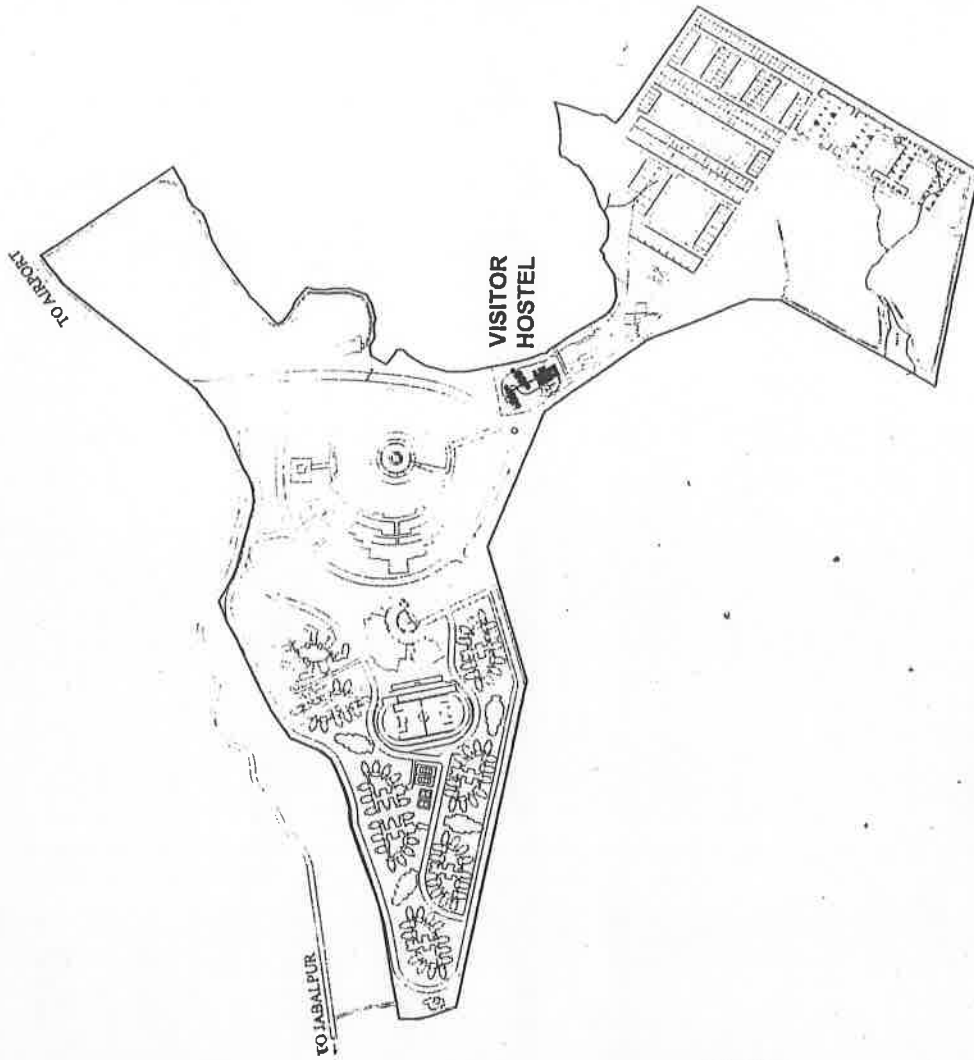


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(2) PRELIMINARY ESTIMATE FOR FACILITIES BLOCK	
SUMMARY OF COST	
S.No.	Amount in Rs.
1	29056770
2	6392489
3	1418654
4	545681
5	1419000
6	650000
Sub Total	39482595

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LOCATION PLAN
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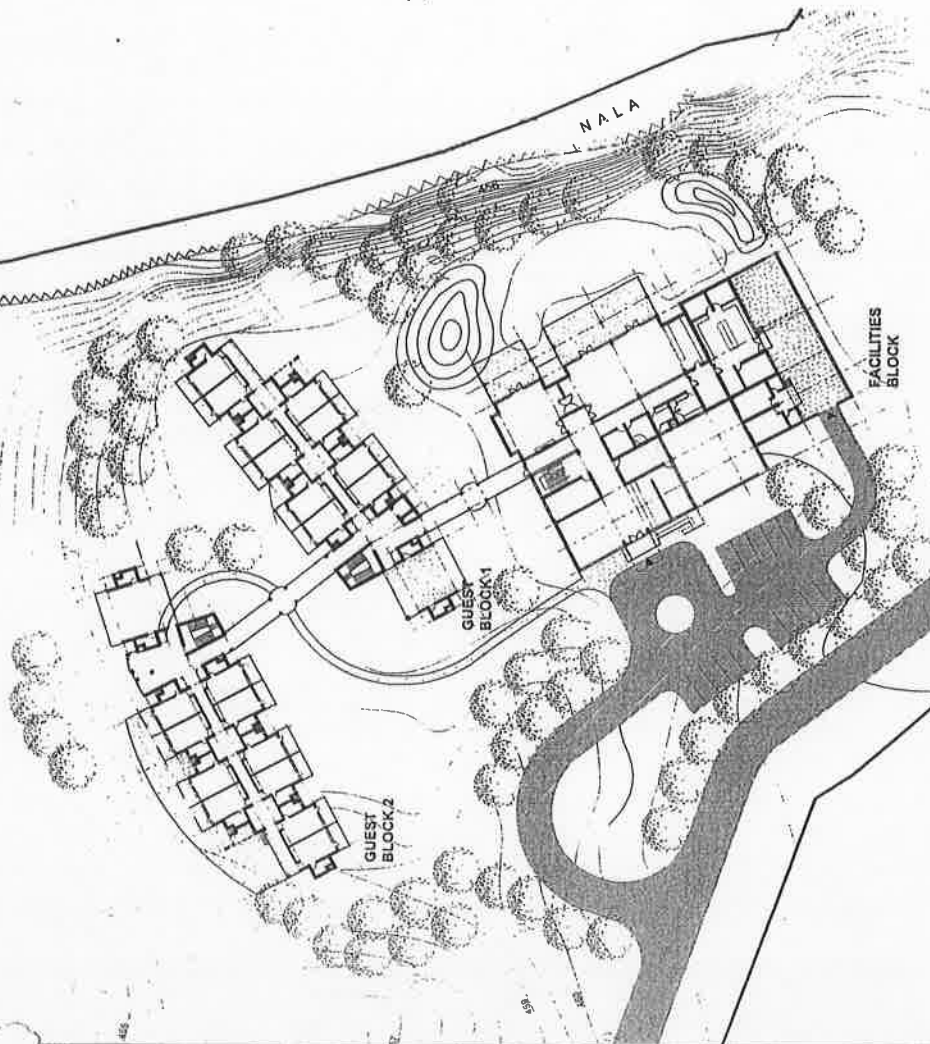
VH-01

KANVINDE RAI & CHOWDHURY
architects & planners, new delhi

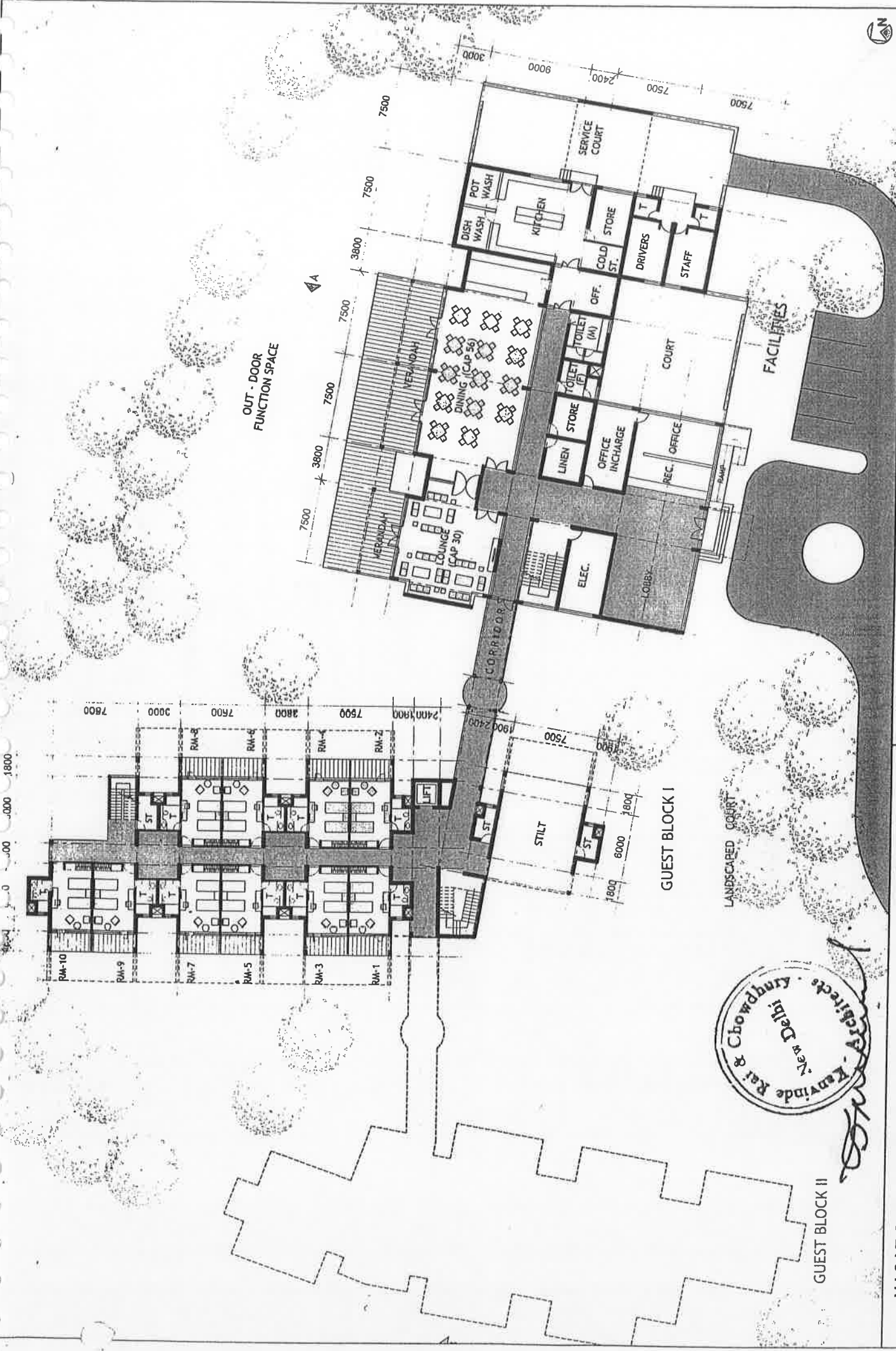
DATE:
JUNE 2010

SCALE
1 : 750

LOCATION/ SITE PLAN



VISITOR HOSTEL, PDPM IIITDM JABALPUR,



GUEST BLOCK II

GUEST BLOCK I

OUT-DOOR
FUNCTION SPACE

FACILITIES

LANDSCAPED COURTYARD

STILT

CORRIDOR

ELEC.

LOBBY

REC. OFFICE

OFF. INCHARGE

STORE

TOILET (M)

TOILET (F)

OFF.

COLD ST.

DRIVERS

STAFF

STORE

KITCHEN

POT WASH

DISH WASH

SERVICE COURT

COURT

VERANDAH

VERANDAH

LOUNGE (CAP 30)

DINING (CAP 36)

RM-10

RM-9

RM-8

RM-7

RM-6

RM-5

RM-4

RM-3

RM-2

RM-1

LIFT

ST

ST

ST

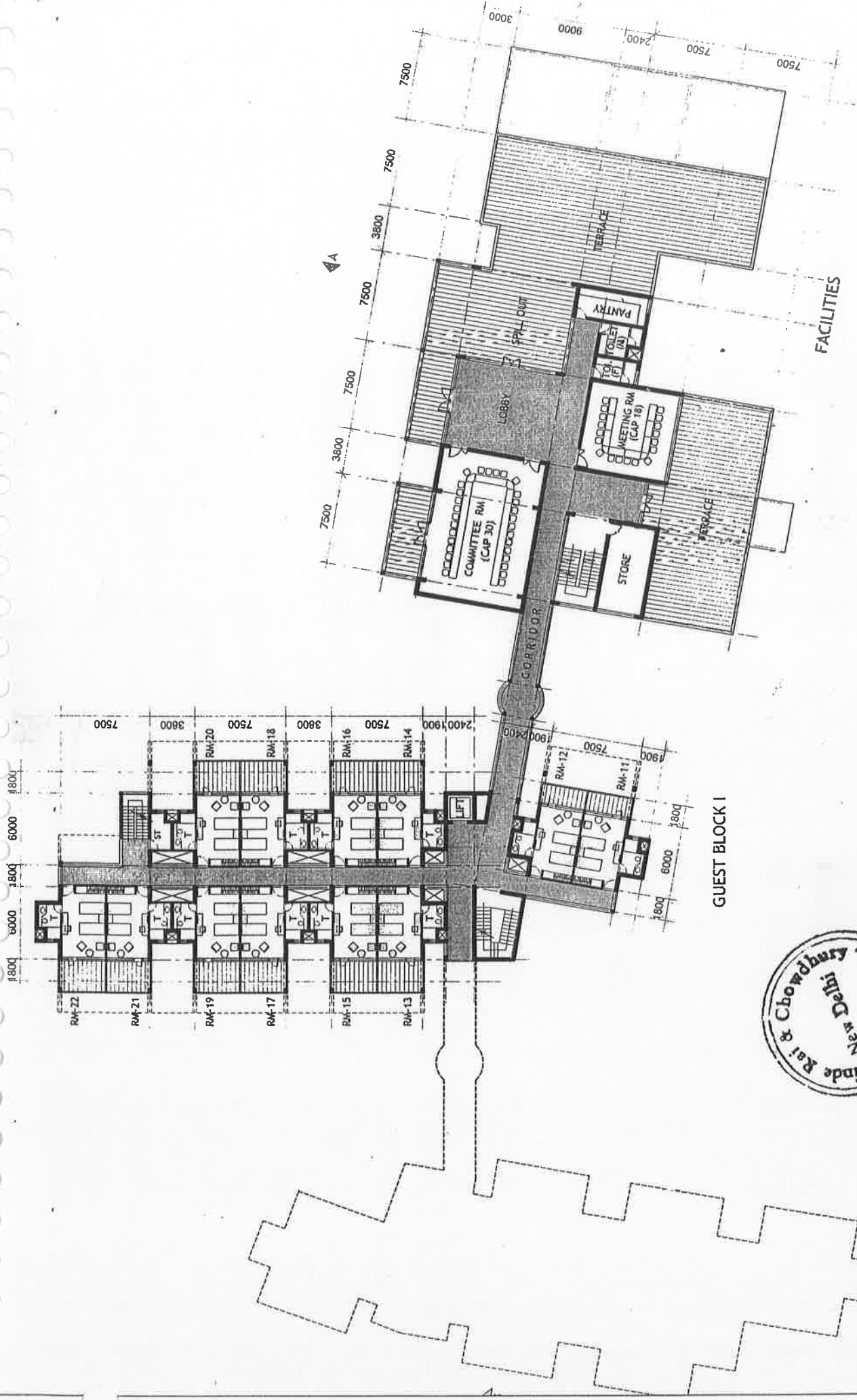
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GUEST BLOCK II

GUEST BLOCK I

FACILITIES





VH-04

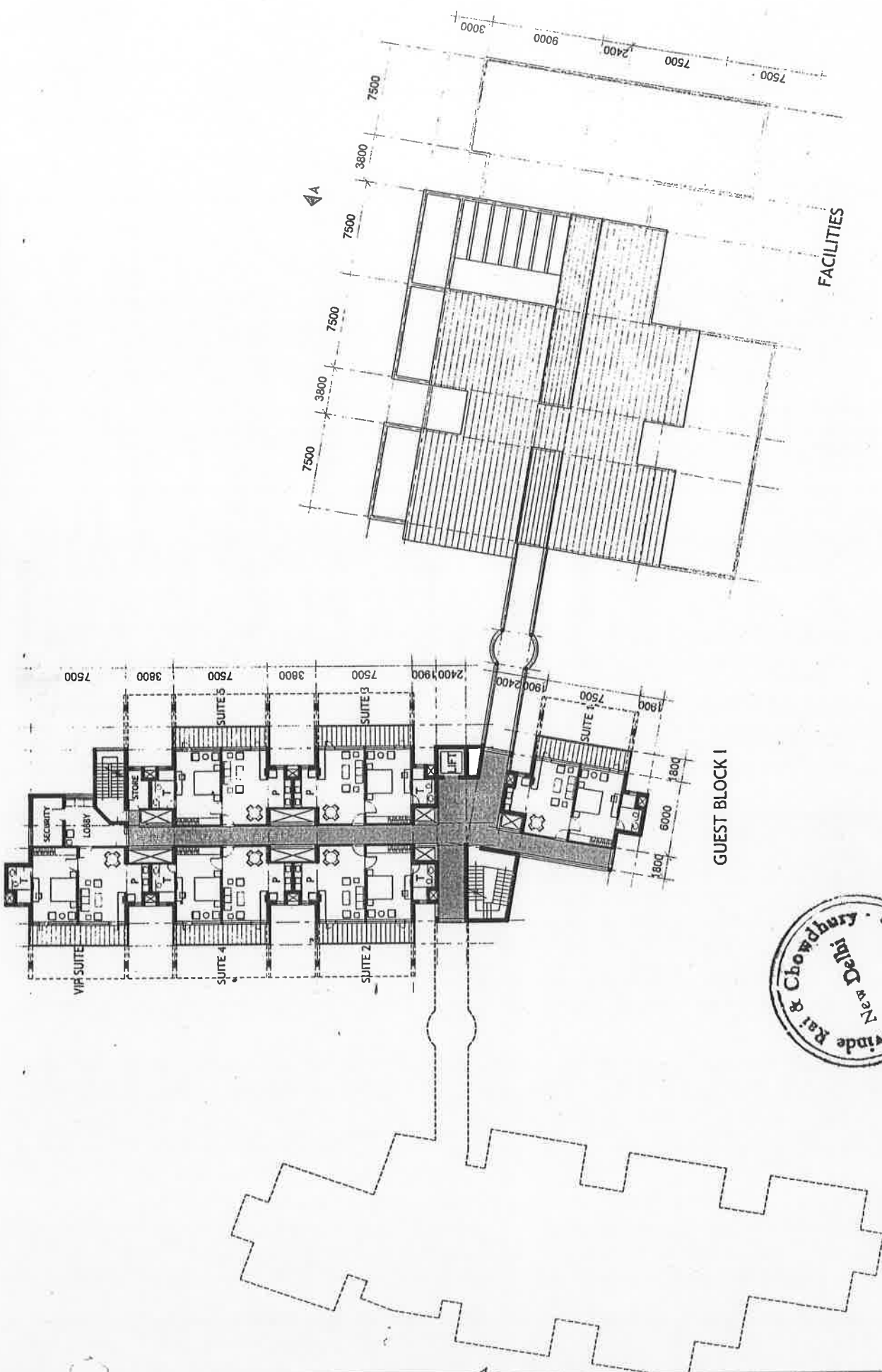
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architects & planners, new delhi

SCALE
1 : 300
DATE:
JUNE 2010

SECOND FLOOR PLAN

VISITOR HOSTEL, PDPM IIITDM JABALPUR,

1800 600 00 800

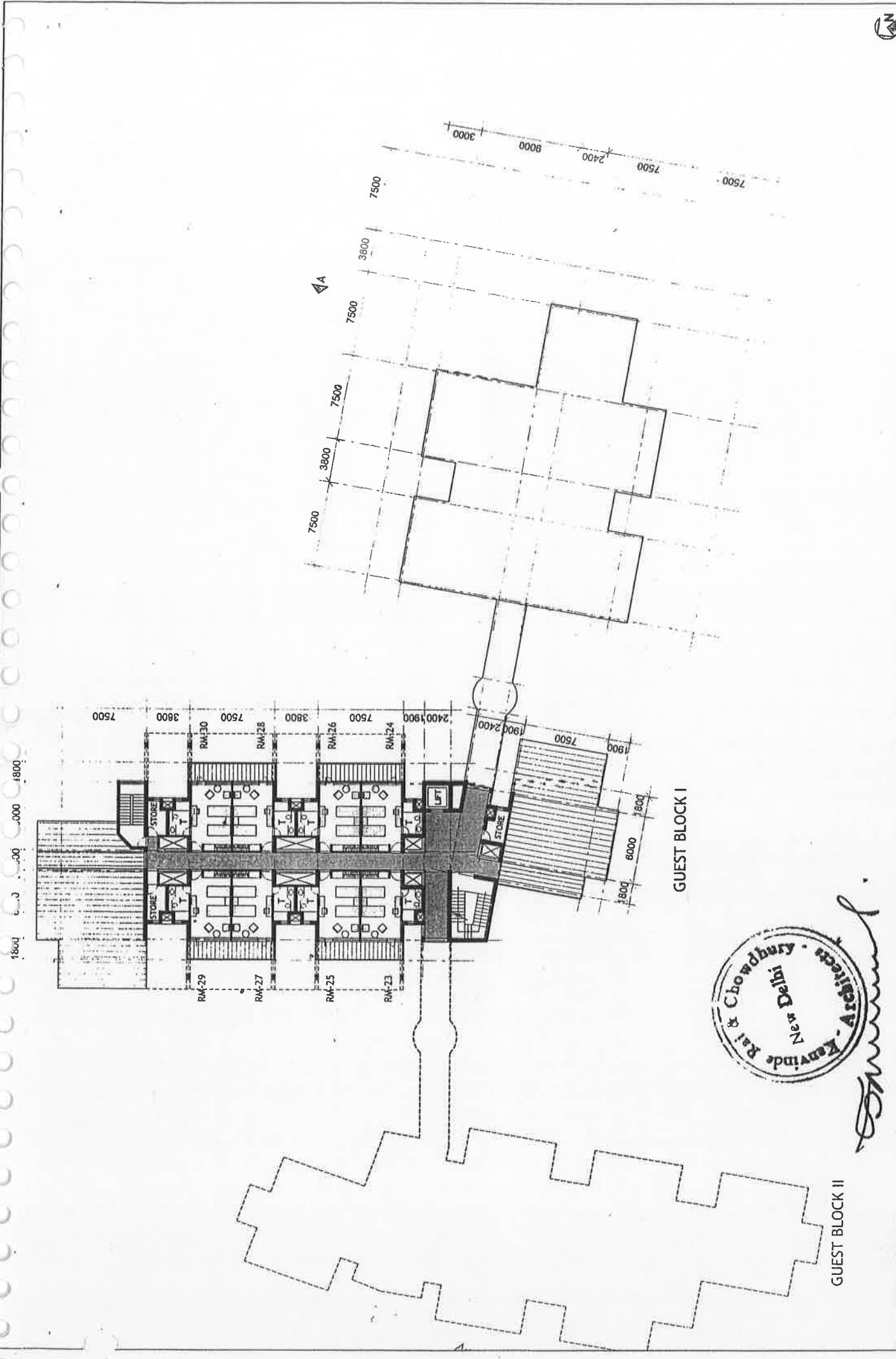


GUEST BLOCK I

GUEST BLOCK II

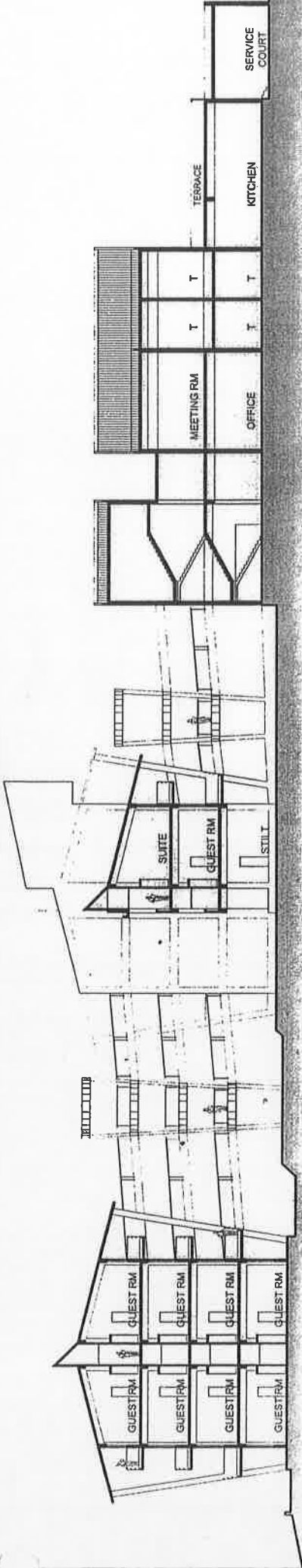
FACILITIES



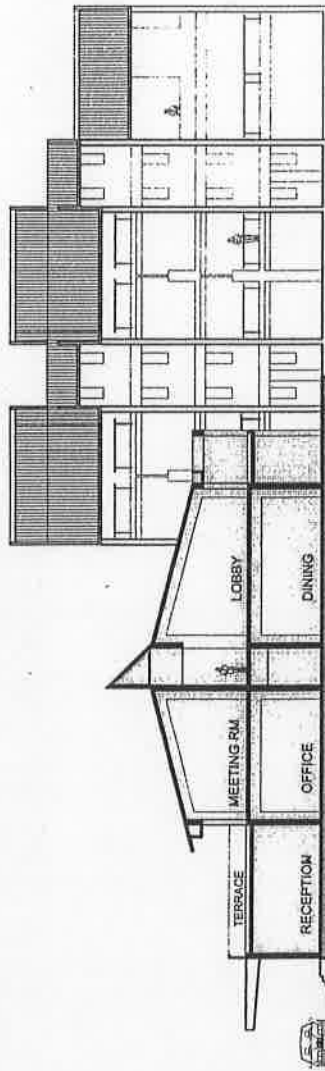


GUEST BLOCK II

GUEST BLOCK I



SECTION BB



SECTION AA



VIP SUITE - 01 no.
 SUITES - 05 nos.
 GUEST ROOMS (Twin-bed) - 30 nos.
 Lounge - Cap. 30 per.
 Dining Hall - Cap. 56 per.
 Committee Room - Cap. 30 per.
 Meeting Room - Cap. 18 per.
 Kitchen/ Pantry
 Kitchen Store/ Linen Store
 Staff/ Driver's Restrooms

	GROUND	FIRST	SECOND	THIRD	TOTAL
FACILITIES	895	420			1315
GUEST BLOCK - I	648	628	609	470	2355
TOTAL (PHASE-1)	1543	1048	609	470	3670
GUEST BLOCK - II	648	628	609	470	2355
TOTAL (PHASE-2)	2191	1676	1218	940	6025



ANNEXURE
B&WC/2010/21A-4

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

(Page P-38 to P-48)

GENERAL ABSTRACT OF COST

Name of Work : - C/o Lecture Hall and Tutorial complex (LHTC)at PDPM IIIT, D&M Campus, Jabalpur (MP)

S.No.	DETAILS OF SUB HEAD	As per Original PE		AS per Revised PE			
		CIVIL	ELECT.	TOTAL	CIVIL	ELECT.	TOTAL
1	SH-I : MAIN BUILDING	191,579,942	30,181,788	221,761,730	242,227,432	70,446,971	312,674,403
2	SH-III : BULK SERVICES	180,000	-	180,000	4,117,500	480,000	4,597,500
	TOTAL	191,759,942	30,181,788	221,941,730	246,344,932	70,926,971	317,271,903
	Add for Quality assurance @ 1%						3,172,719
	Add for labour cess @ 1%			2,219,417			3,172,719
	Architects fee @5.618%			12,468,686			17,824,336
	Project management @1.69%			3,750,815			341,441,677
	Add for contingencies @ 3%			500,000			9,518,157
	TOTAL		TOTAL	240,880,648		TOTAL	350,959,834
			Say	240,880,600		Say	350,960,000

Architectural Consultant

ABSTRACT OF COST

Name of Work : - C/o Lecture Hall and Tutorial complex (LHTC)at PDPM IIIT, D&M Campus, Jabalpur (MP)

Sl. No.	Sub Head and Item of work	As per Original P.E.			As per Revised PE					
		Qty	Rate	Unit	Amount	Qty	Rate	Unit	Amount	
SH-III : BULK SERVICES										
1) Civil										
1.1	Over Head Tank without independent staging	10000	9	Litre	90000	75000	9.00	Litre	675000	PAR,2007
1.2	Under ground sump including for fire fighting	10000	9	Litre	90000	300000	9.00	Litre	2700000	PAR,2007
				TOTAL	180000			TOTAL	3375000	
	Enhancement over PAR,2007 rate as per approved cost index					Enhancement over PAR 2007 rate as per approved cost index of 122 i.e.add @ 22% on PAR 2007 items			742500	
				TOTAL	180000			TOTAL	4117500	
2) Electrical										
2.1	Booster pumps for underground sump including a	-	-		-	3	160,000.00	Each	480,000	MR
				TOTAL				TOTAL	480000	
	Enhancement over PAR,2007 rate as per approved cost index					Enhancement over PAR 2007 rate as per approved cost index of 122 i.e.add @ 22% on PAR 2007 items				
				TOTAL				TOTAL	480000	

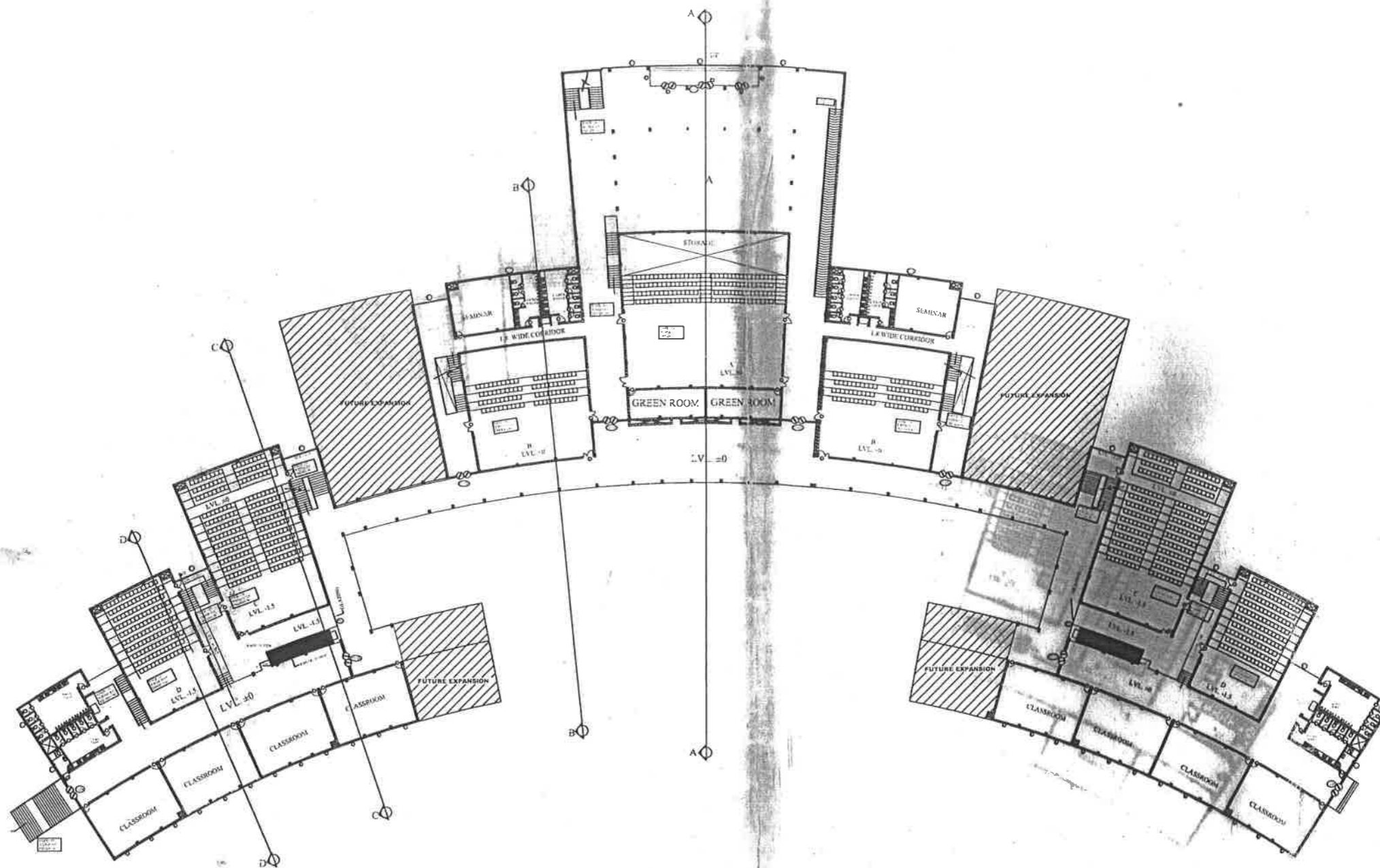
Architectural Consultant

Name of Work : - C/o Lecture Hall and Tutorial complex (LHTC)at PDPM IIIT, D&M Campus, Jabalpur (MP)

ABSTRACT OF COST

Sl. No.	Sub Head and Item of work	As per Original P.E.			As per Revised PE			Difference			
		Qty	Rate	Unit	Amount	Qty	Rate		Unit	Amount	
SH-I : MAIN BUILDING											
Plinth Area					Plinth Area						
Ground Floor		6501.46	sqm					6239.00	sqm		
First Floor		3209.54	sqm					4317.00	sqm		
Say		9711.00	sqm				Say	10556.00	sqm		
1 CIVIL											
1.1	RCC Framed Structure of normal floor height of 3.35m.	9,711	13,200	Sqm	128,185,200	10,555	13,200	sqm	139,326,000	PAR' 07	11,140,800
1.2	Every 0.30 m deeper foundation over normal depth of 1.2 (on GF only)	2,603	150	Sqm	390,450	6,239	150	Sqm	935,850	PAR' 07	545,400
1.3	Extra for additional floor height (15.35 - 3.35=12.0m)	5,435	150	Sqm	815,184	843	6,000	sqm	5,058,000	PAR' 07	4,242,816
	Extra for additional floor height (15.65 - 3.35=12.3.15m)	21,758	150	Sqm	3,264,114	822	6,150	sqm	5,052,225	PAR' 07	1,788,111
	Extra for additional floor height (6.50 - 3.35=3.15m)	43,082	150	Sqm	6,463,158	1,202	1,575	sqm	1,893,150	PAR' 07	(4,570,008)
	Extra for additional floor height (6.13 - 3.35=2.78m)	7,110	150	Sqm	1,066,122	765	1,388	sqm	1,061,438	PAR' 07	(4,684)
	Extra for additional floor height (3.50 - 3.35=0.15m)	762	151	Sqm	114,150	6,924	75	sqm	519,263	PAR' 07	405,113
1.4	Extra for 0.30 metre higher plinth over normal 0.6 m(0.9m)	2,558	150	Sqm	383,700	6,239	150	Sqm	935,850	PAR' 07	552,150
1.5	Extra for resisting earthquake forces	9,711	630	Sqm	6,117,930	10,555	630	sqm	6,649,650	PAR' 07	531,720
1.6	Extra for larger modules over 35 sqm	7,745	990	Sqm	7,667,372	3,632	990	Sqm	3,595,185	PAR' 07	(4,072,187)
1.7.1	Extra for high performance glass instead of reflective or double float glass	5,700	1,000	Sqm	5,700,000	-	-	-	-	MR	(5,700,000)
1.7.2	Extra for pre-construction antitermite treatment	-	-	-	-	6,239	427	sqm	2,664,053	MR	2,664,053
1.7.3	Extra for Kalzip sheet roofing instead of RCC roof	-	-	-	-	3,632	1,201	sqm	4,361,432	MR	4,361,432
1.7.4	Extra for Insulation on walls/Accoustic treatment on walls	5,289	4,000	Sqm	21,157,746	7,804	2,652	sqm	20,696,208	MR	(461,538)

	Nos	Area		
Ground floor area as calculated earlier manually with CPWD	8105			
First floor area as calculated earlier manually with CPWD	5027			
Areas as calculated earlier manually with CPWD	13132			
Reduction in areas				
Ground floor				
300 seater halls	821.5	2	410.75	25.2 16.5
Rooms & corridor below 300 seater hall	334.08	2	167.04	17.4 9.6
Tutorial classes	181.7	2	90.85	11.5 7.9
Back corridor connecting both tutorial classes	453.99	1	453.99	81.8 5.55
corridor connecting both longer corridor in centre	74.8	1	74.8	4 18.7
Subtotal in reduction on Ground floor	1866.07			
First floor				
Tutorial classes	181.7	2	90.85	11.5 7.9
Back corridor connecting both tutorial classes	453.99	1	453.99	81.8 5.55
corridor connecting both longer corridor in centre	74.8	1	74.8	4 18.7
Subtotal In reduction on First floor	710.49			
Toal reduction in covered area	2576.56			
New reduced areas				
Ground floor	6238.93		6239	
First floor area	4316.51		4317	
New revised plinth areas	10555.44	SAY	10556	



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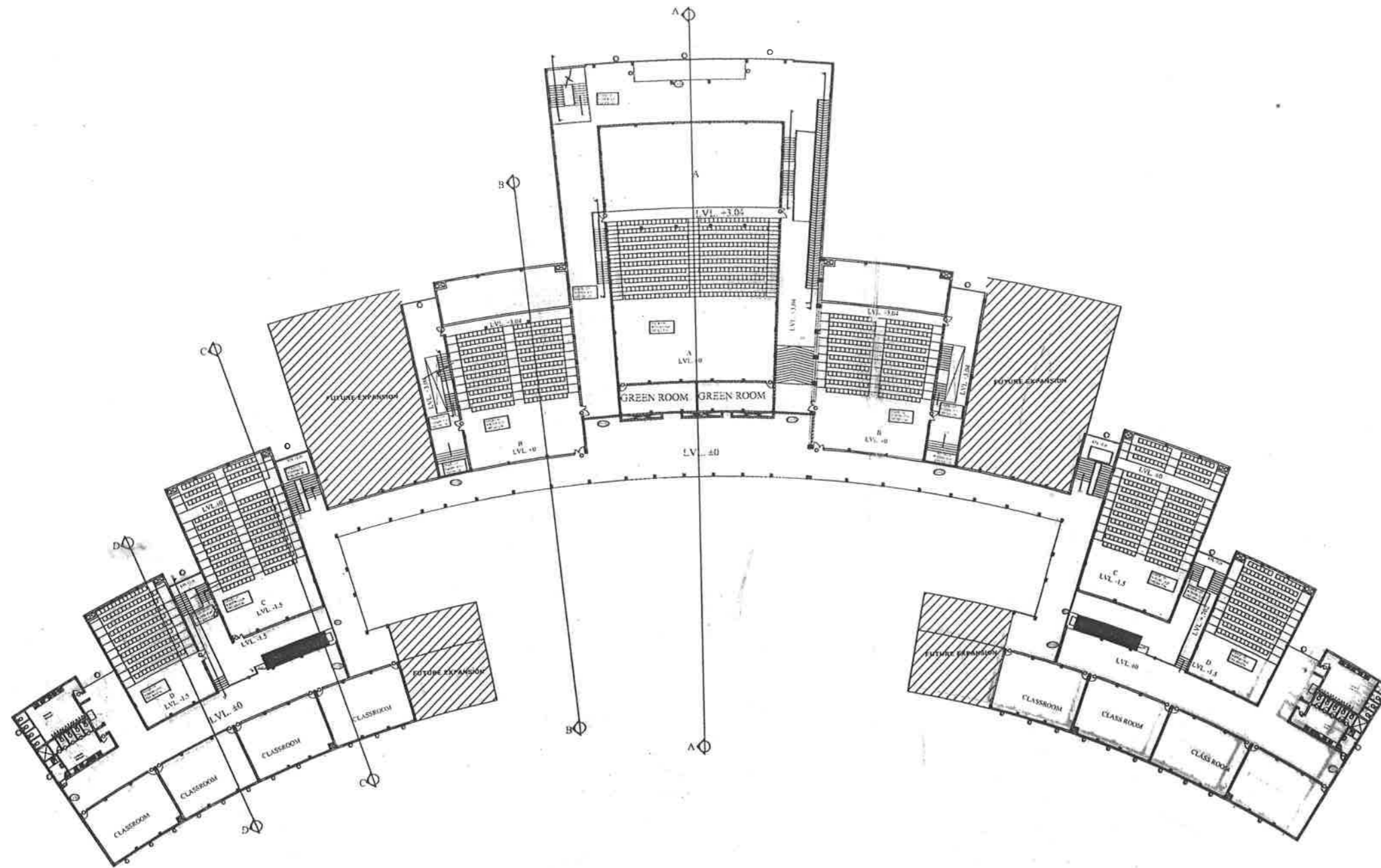
amit sahani b.arch., mca	kratma sahani b.arch., m.aud (USA)	e.k.sahani b.arch., fia
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Dwg No 03

Scale 1:300

Drawn	Date
RAJ	SEP.2008

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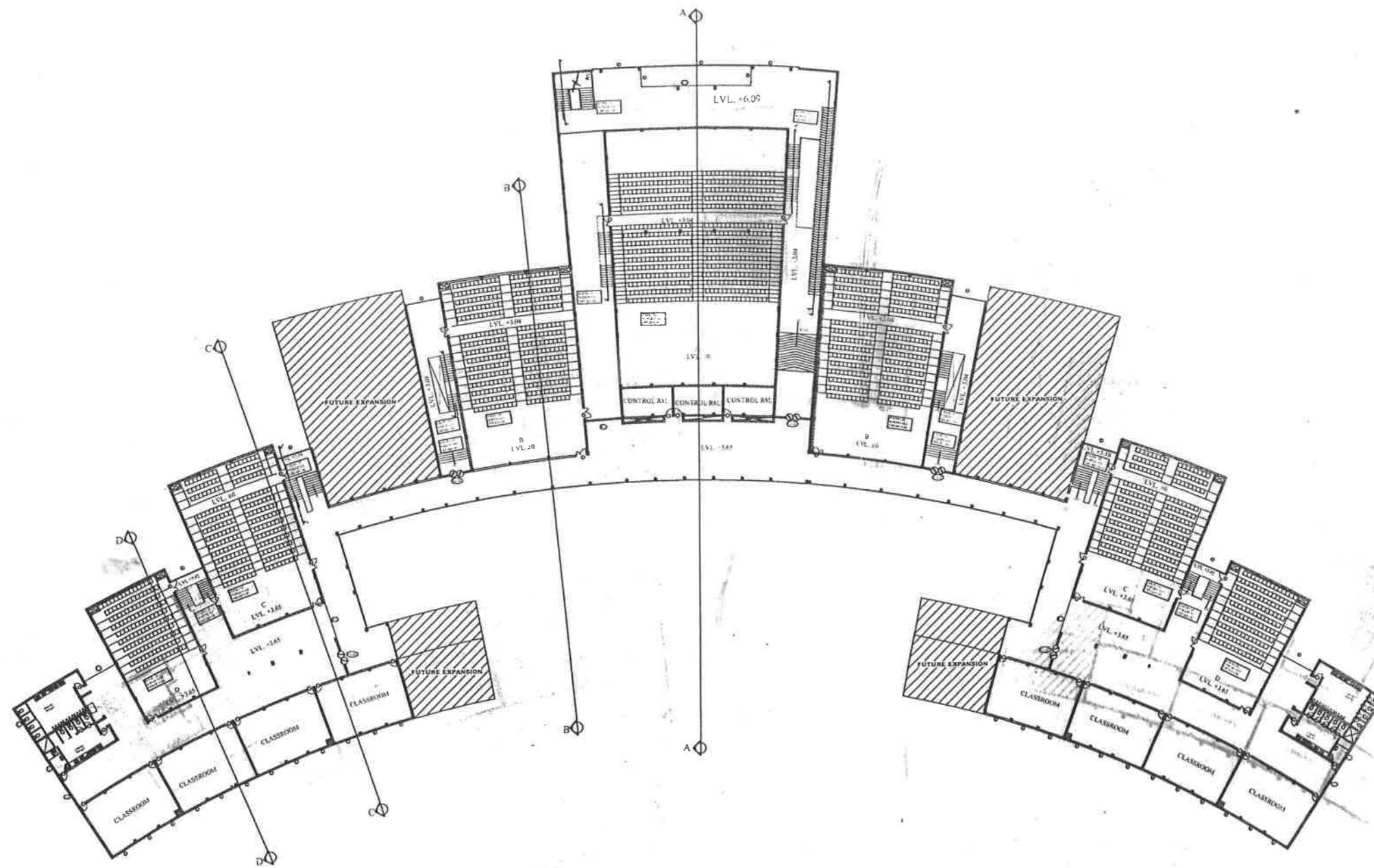
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Scale	1:300
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Title TYPICAL PLAN AT 5 MLVL.		
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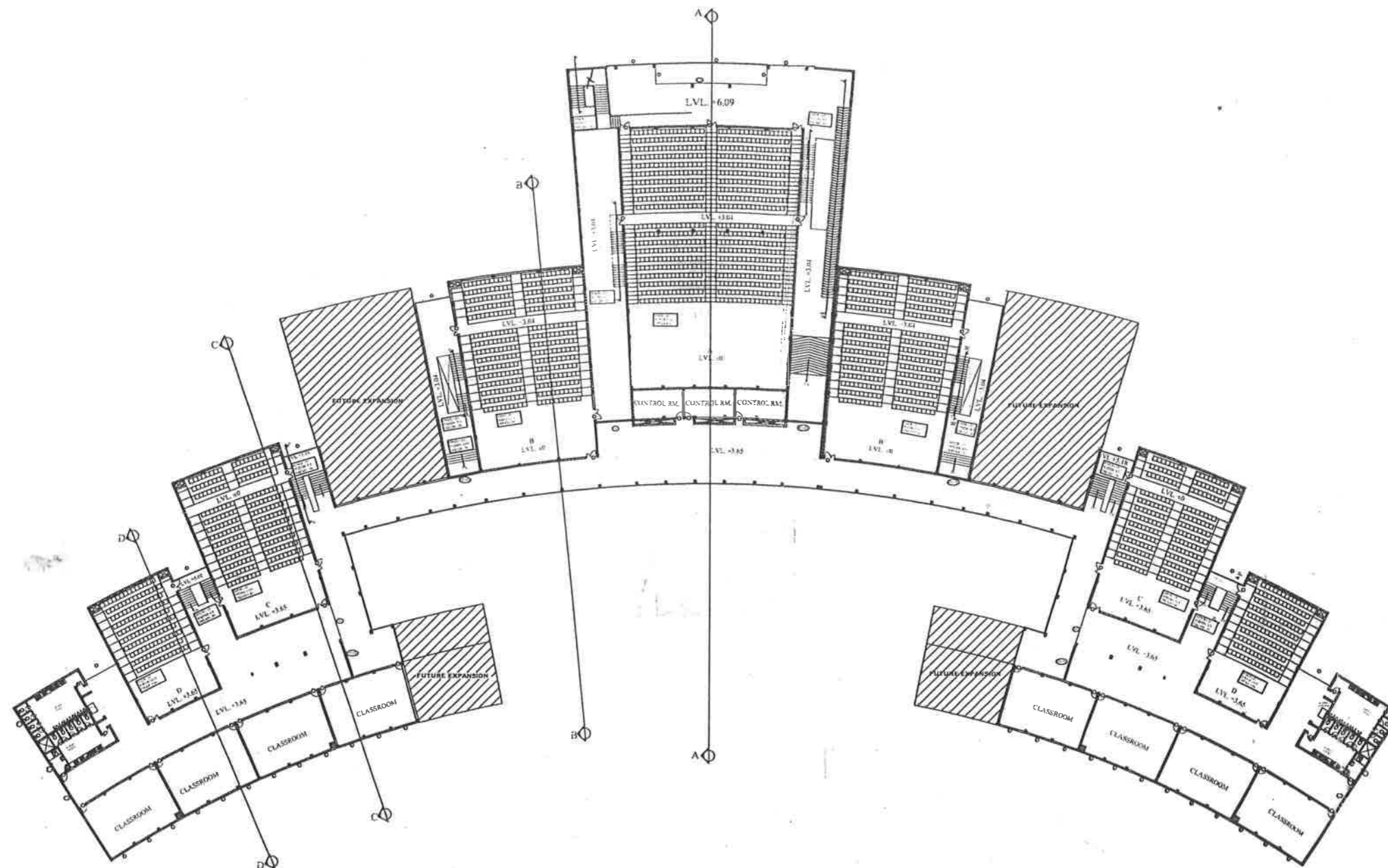
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Title TYPICAL PLAN AT 6.7 M LVL.		
OPTION-6		

amit saini kratma saini s.k.saini
 b.arch., mca b.arch., m.eud (USA) b.arch., ffa

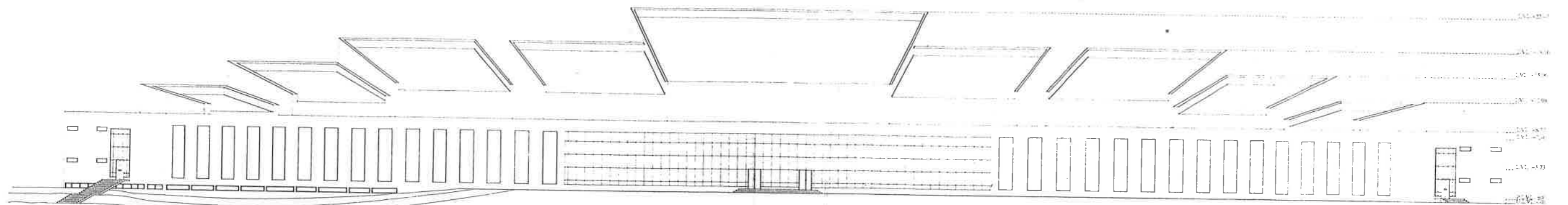
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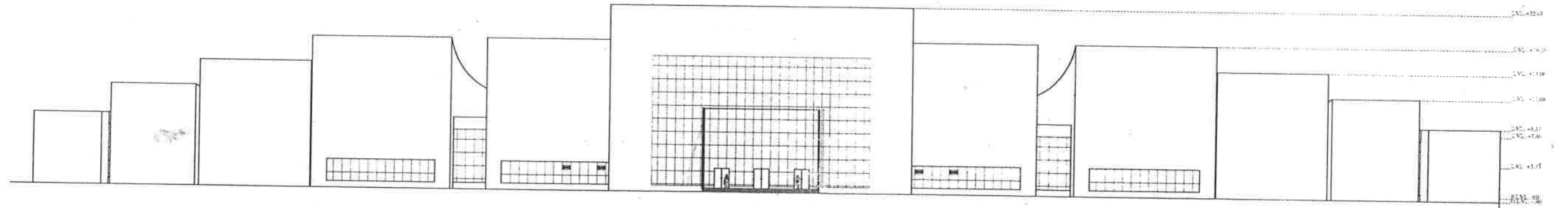
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 RAN/ _____ SEP.2008

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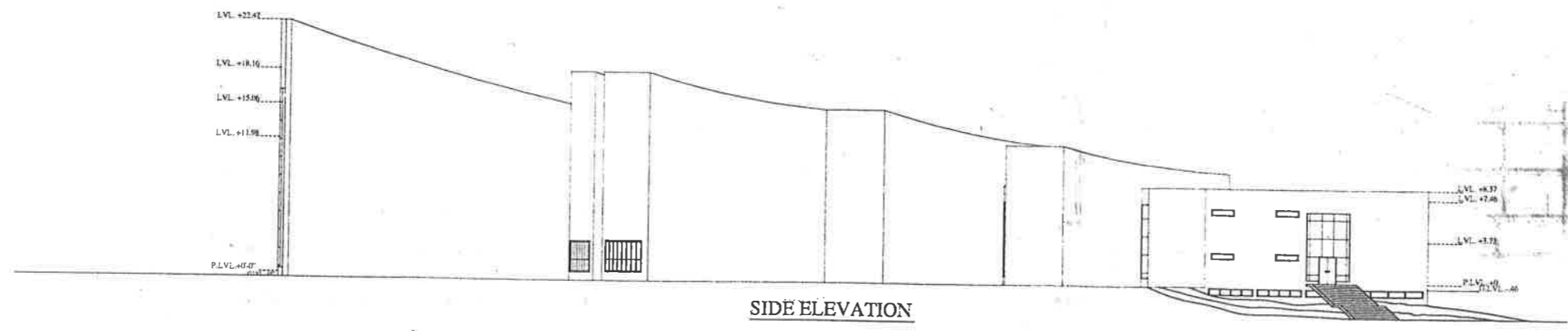
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FRONT ELEVATION



REAR ELEVATION



SIDE ELEVATION

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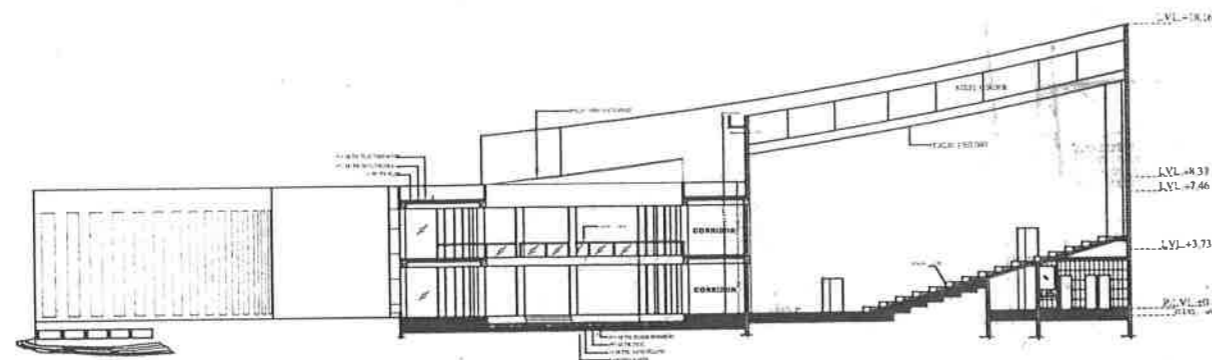
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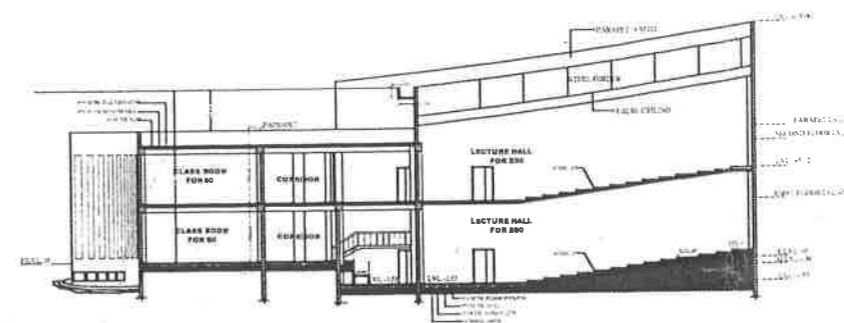
amt saini khatma saini s.k.saini
 b.arch., mca b.arch., m.aud (USA) b.arch., fia

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 Date Date
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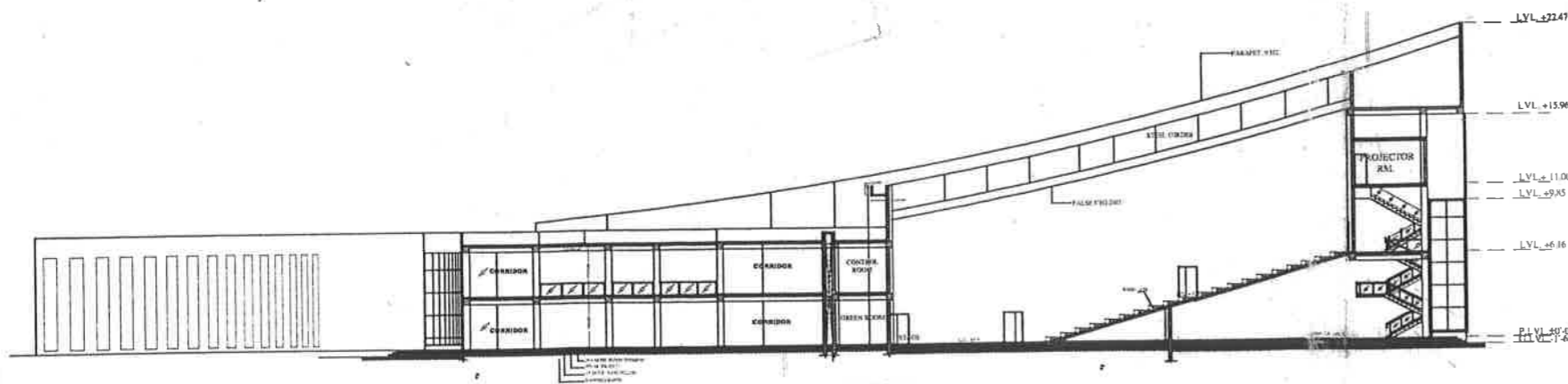
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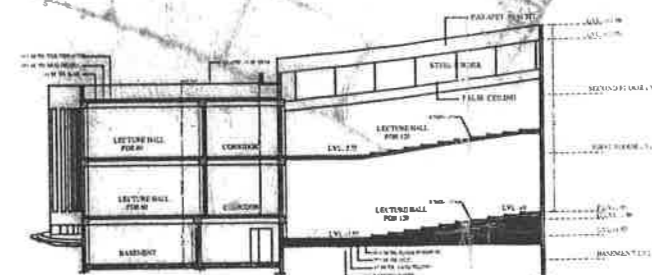
SECTION B-B



SECTION C-C



SECTION A-A'



SECTION D-D

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ANNEXURE

B&WC/2010/21A-5

Revised Estimate (RE) of the work of
Shifting of 33 KV Dumna feeder away
from the PDPM-IIITDM premises

(Page P-49 to P-51)

OFFICE OF THE EXECUTIVE ENGINEER (O & M)
M.P.P.K.V.V.CO.LTD. JABALPUR DIVISION. JABALPUR.

// FOR HTO CONNECTION //

EE3/O&M/WS/WO/ 463 WORK - ORDER

Dated 29/4/2010

Shri **M.P. Beg, A.E. (O&M) Sub. Dn. Jabalpur (R)**..... is hereby authorised for execution of the following sanctioned work order his supervision after completion of required formalities, necessary completion report should be submitted within one month from the date of completion of work.

ONLY SUPERVISION CHARGE MATERIALS NOT TO BE ISSUE

NAME OF ESTIMATE :- **Revised estimate for 33 KV Duna Feeder from the premises of M/s PDPPI Indian Institute of Tech. Design & Manufacturing Jabalpur at village Mehgawa beside Duna Airport Road Jabalpur under (O&M) Dn. Jabalpur.**

AMOUNT OF ESTIMATE :- Rs. ~~1000~~ **1000** only. (5% Supervision Charges paid by the applicants Rs. **85300/-** & S.T. Rs. **9841/-**)

M.R. No **15703/P.19** Dated **17/3/2010** only.)

ESTIMATE SANCTION No:- ~~78-000-4452-09-0015~~ **78-000-4452-09-0015** JOP, Dtd **23/01/2010**

WORK ORDER NO & DATE :- **0806** Dated **26/4/2010**.

NAME OF SCHEME :- **DEPOSITE WORK / 2009-10**

// FORMALITIES TO BE COMPLETED THE APPLICANTS //

- (1) The Work will be carried out through the 'A' Class Registered Electrical Contractor and registered in the office of CE(JR) Jabalpur under Supervision of concerning AE of MPPKVCo.Ltd.JOP.
- (2) The applicant should submit the copy of purchase order mentioning various purchaser terms & condition.
- (3) Applicant should produce all purchase vouchers of materials required for completion of proposed work.
- (4) The materials required for completion of proposed work should possess standard specification as per requirement of MPPKVCo.Ltd. which should be approved by our officer not below the rank of Executive Engineer.
- (5) Purchased materials should be guaranteed for the period as per purchase order of M.P.P.K.V.V.Co.Ltd.
- (6) Applicant should obtain NOC from Divisional/Assistant Electrical Inspector for charging electrical appliances/Equipement before handing over proposed work.
- (7) Pole schedule shall be prepared at the time of taking over the ~~xx~~ asset.

YOU ARE THEREFORE REQUESTED TO PLEASE INTIMATE THE FOLLOWING :-

- (1) Name of 'A' Class Registered Electrical Contractor alongwith valid copy of license through whom the work is being executed.
- (2) The details of order placed for various materials and there specification alongwith copy of purchase order contracts.
- (3) Details of labour contractor award if any issued.

Encl:- Estimate & Map.

Executive Engineer (O&M)
MPPKV Co. Ltd., JOP

Copy forwarded to:- **The SE(O&M), Jabalpur**

(1) **The J.E., M.P.P.K.V.V.Co.Ltd. Pipariya.....**

(2) **M/s PDPPI Indian Institute of Information. & Tech..
Duna Airport Road, Jabalpur.**

(3) **Gen. Section, Dn. Office, Jabalpur.**

ESTIMATE REPORT

- 1. NAME OF ESTIMATE
- 2. AMOUNT OF ESTIMATE
- 3. HISTORY AND SCOPE

Revised Estimate for 33 KV Dumna feeder from premises of M/s PDPM Indian Institute Technology Design & Manufacturing Jabalpur at village Mehgawa beside Dumna Airport Road Jabalpur under (O&M) Dn. Jabalpur.

Rs. ~~45988.00~~ G.T. of the Estimate P. ~~12834507~~ - 1800104.00
 Rs. 161473.00 Supervision charges @ 5% P. ~~702057~~ & 2853201/-
 Rs. 140411.00 Server Tax @ 12.36% ST @ 10.33% P. ~~72528~~ - 82191/-

The Estimate for The Director Prof. S. Bhargava of PDPM Indian Institute of Information Technology Design & Manufacturing, Jabalpur at village Mehgawa beside Dumna Airport Road Jabalpur has applied for a new H.T. connection for 1500 KVA contact demand on 33 Kv with connected load 1350 K.W. on dated 04.02.2008 for educational purpose has been sanctioned vide Estimate no. 76-000-4452-08-0019 dated 06/09/08 for amount of Rs. 9,61,751/- The revision of estimate is required due to less provision of 33 KV line. in the above estimate and also route of the 33 KV line has been change due to Military area.

76-000-4452-08-0019 dt. 23/01/2010
 Technically sanctioned for Rs. 1800104/-
 amounting Rupees Eighteen Lacs -
 one hundred forty four thousand only.

S. E. (O&M) Circle
 MPPKVCL JBP

Accordingly this estimate is framed

- 4. TECHNICAL ASPECTS
- 5. BUDGET PROVISION
- 6. ALLOCATION


- 1) Shifting of 33 KV line 1.0 KM
- 2) Shifting of 33 KV D.P. Structure 02 Nos.
- 4) New 33 KV Line 1.2 Km.
- 5) New 33KV D.P. 3 Nos


Deposite year 2009-10


7. REMARKS

The applicants has given written consent for execution of the above work by them-selevs as per MPPKV Co. Ltd rules and regulation and I.E. rule by depositing 5% supervision charges for the same


 JUNIOR ENGINEER
 MPPKVCO. LTD PIPARIYA D.C.


 ASSISTANT ENGINEER,
 MPPKVCO. LTD ADHARTAL "R" S/Dn.
 Adhartal (R) Sub Dn.


 A. E (Works)
 (O & M) Dn.
 M.P.P.K.V V, Co. Ltd. JBP.


 Executive Engineer (O&M)
 MPPKV Co. Ltd., JBP

Revised Estimate for 33 KV Dumna feeder from premises of M/s PDPM Indian Institute Technology
Design & Manufacturin Jabalpur at village Mehgawa beside Dumna Airport Road Jabalpur under (O&M)
Dn. Jabalpur.

Sl No.	Particulars	52 Kg./Mtr., 13.0 Mtrs. long rail supports			
		Unit	Qty.	Rate (Rs.)	Amt (Rs.)
1	2	3	4	5	6
1	52 Kg./Mtr. 13Mtr. Long rail pole	Nos.	23	37,726	867,698
2	33 KV 'V' cross-arms with back clamps 75x75x6 mm angle	Nos.	6	1,273	7,638
3	33 KV Top clamps 75x75x6 mm Angle	Nos.	53	185	9,805
4	Earthing Set (Coil earth as per Drg.No.G/007)	Nos.	23	151.	3,473
5	33 KV Pin Insulator with G.I.Pins	Nos.	67	314	21,038
6	DOG Eq.AAAC Conductor (100Sq.mm.Al.Eq.) with 3 % Sag	Kms.	4.41	40,277	177,622
7	Jointing Sleeves suitable for 80Sq.mm.Al. Eq. AAAC conductor	Nos.	15	20	300
8	Stay set 20 mm. complete with back clamps, stay wire 7/4.0 mm. (8.5 kg.stay wire per stay set) and turn buckles	Sets	34	1,168	39,712
9	Concreting of rail supports @ 0.65 Cmt.per pole including muffing of pole and @ 0.3 cmt. per stay and @0.05 cmt. per PCC pole for base padding.	Cmt.	25.25	2,200	55,550
10	Red oxide paint	Ltrs.	15	113	1,695
11	Aluminium paint	Ltrs.	15	242	3,630
12	Anti climbing devices	Nos.	20	186	3,720
13	Danger Boards	Nos.	20	72	1,440
14	Binding wire and tape	Kgs.	15	105	1,575
15	M.S.Nuts and Bolts	Kgs.	75	72	5,400
16	D.C.cross- arm of 100 X 50 X 6 mm. channel 5' centre)	Set	10	3,368	33,680
17	33 KV Strain set with hard ware	Set	18	712	12,816
18	Horizontal and cross bracing 5' centre with set of four back clamps	Set	4	2,673	10,692
19	Single Pole Cute Point fitting 100x50x6 mm	Set	10	1,458	14,580
20	Side cross arm	Set	0	2,161	0
21	Stay clamp A-type and B-type for rails	Pair	100	155	15,500
22	I Bolt 16mm		15	37	555
23	33 KV Garding channel	Set	6	2,341	14,046
24	G.I. Wire 8 SWG	Kg.	60	52	3,120
25	M.S. Angle	Kg.	50	38.76	1,913
26	Dismantling (labour & Transporting charges) of existing feeder of 33 KV line over hade line 33 KV	LS	LS	40,000	40,000
27	33 KV A.B. Switch	Nos.	2	10,956	21,912
28	Sundries	LS	LS	LS	35,000
	Total				1,404,109
29	Contingencies charges			11.5 %	161,473
30	Labour & Transportation charges @ 10% of material cost				140,411
	Grand Total				1,705,993

JUNIOR ENGINEER
MPPKVCO. LTD PIPARIYA D/C.

S.T. Sup. G. R. 70205/85300/
ASSISTANT ENGINEER S.T. @ 10.35/ 7258 8011/
MPPKVCO. LTD ADHARTAL "R" S/Dn. 1783450 = 0
Adhartal (R) Sub Dn. 1800104 = 0

Total cost of Set. Sup. Rs. 1800104/-
CST. sup. G. R. 70205/- or R. S.T. @ 10.35/ R. 9257/- or

A. E (Works)
(O & M) Dn.
M.P.P.K.V.V. Co. Ltd. JBP

Executive Engineer (O&M)
MPPKV Co. Ltd., JBP

ANNEXURE

B&WC/2010/21A-6

Revised Estimate for the work power supply to 1500 KVA new HT connection on 33 KV to PDPM-IIITDM,Jabalpur

(Page P-52 to P-60)

Office of S.E. (C&M) Circle
M.P.K.V.V.L Jabalpur

NO. SE (C&M) / M/S/ESTH/ 121 Jabalpur dt. 12/11/10

TO,

The E.E. (C&M) Dn
M.P.K.V.V.L
Jabalpur.

Subj: - Sanction of estimate.

Ref: - CE (TR) JIR's letter no. CE/TR/WS/223
dt. 8/11/10

With reference to above, an estimate for sanction of revised estimate for power supply to 33 KV new HT. connection of 1500 KVA contract awarded to M/S PDPM Indian Institute of Information Technology, Design & Manufacturing Jabalpur at village Mehgawan beside Dumra Airport Road under (04M) Dn. Jabalpur is sanctioned by CE (TR) vide sanction no. MS/000-MS/2-10-0002 dt. 7/11/10 amounting to Rs. 1,33,28,340/-. A copy of the same is enclosed herewith for further necessary action at your end.

Encl: - As above

Sd /
Superintending Engineer
(C&M) Circle
M.P.K.V.V.L, Jabalpur

Copy to: - M/S PDPM Indian Institute of Information Technology, Design & Manufacturing, Jabalpur at village Mehgawan, beside Dumra Airport Road. For information & necessary action.

कंपनी लिमि
निश्चयक कार

शासन, जबलपुर

1) एवं
प्र शासन,
प्र
2.

OFFICE OF THE CHIEF ENGINEER (JR)
MPPKV Co. Ltd. JABALPUR

No./CE/JR/WS/ 223

Dated. 08/11/10

To, ✓ THE SUPRINTENDING ENGINEER (O&M).
MPPKV Co. Ltd
JABALPUR.

Sub:- Sanction of revised estimate for Power Supply to 33 KV new HT connection of 1500 KVA contract demand to M/s PDPM Indian Institute of Information Technology Design & Manufacturing Jabalpur at Village Mehgawa beside Dumna Airport Road Jabalpur under (O&M) Dn. Jabalpur.

Ref:- Administrative Approval conveyed by Addl. SE (W&P) EZ Jabalpur vide letter No.-EZ/WS/2219 dated 06.04.10

In accordance to Administrative Approval conveyed by Addl. SE (W&P) EZ Jabalpur vide letter No. 2219 dated 06.04.10, The technical sanction 45-000-4452-10-0002 dated 07.04.10 is here by accorded for revised estimate for Power Supply to 33 KV new HT connection of 1500 KVA contract demand to M/s PDPM Indian Institute of Information Technology Design & Manufacturing Jabalpur at Village Mehgawa beside Dumna Airport Road Jabalpur under (O&M) Dn. Jabalpur, amounting to Rs. 1,33,28,340=00

As per Administrative approval accorded by the CMD – EZ. The estimate envisages the following revised major technical aspects:-

i)	33 KV line conversion single to Double Circuit	10 KM
ii)	33 KV Bay extension with VCB at Sitapahad & Gora Bazar S/s for LILo arrangement	2 Nos
iii)	33 KV line extension of 52 Kg/Mtr. Rail pole, 13 Mtr. Long with Dog Conductor (DCSS)	3.2 KM
iv)	33 KV DP structure with 52 Kg/Mtr. Rail pole, 13 Mtr. long	10 Nos
v)	33 KV line with A.B. Cable	70 Mtr

The estimate is revised for DCSS (Double Circuit Single String) 33 KV lines extension from 33/11 KV S/s Sitapahad to PDPM. Accordingly amount of the estimate is worked out to Rs. 1,33,28,340/- supervision charges @ 5% is Rs. 6,31,585/- and service tax on supervision charge @ 10.3% is Rs. 65,052/-. The applicant has to deposit supervision charge, service tax and supply affording charge i.e. Rs. 18,21,637/- to Discom-EZ. In respect of revision of SOR of FY 2010-11, cost of balance work only and compute the estimate and supervision charges accordingly.

The work shall be executed by the applicant through 'A' class contractor and supervision charge along with service tax and supply affording charges @ Rs. 750/- KVA on 1500 KVA CD, as per Regulation Dated 07.09.09, shall be deposited in account of Discom – EZ.

The applicant shall obtain ROW clearance from Private land holders/MILITARY & Forest Department etc. from competent authorities with deposition of charges.

Technical specification of line materials is available at our Web site. The applicant shall procure line materials conforming to our technical specifications with latest type test certificate of NABL accredited lab only. If supervision authority finds any of such items to be inferior in quality, random sample test of that items shall be done through NABL accredited lab. The testing and transportation charges shall be borne by the applicant. As such guaranteed technical specification of line materials and list of approved venders of EZ shall be circulated shortly.

Encl: As above


CHIEF ENGINEER (JR)

Copy to:-

1. The CE (W&P) MPPKVCL, Jabalpur.

// For HT Conn //

ESTIMATE REPORT

ESTIMATE Revised Estimate for Power Supply to 1500 KVA New HT connection on 33 KV to M/S PDPM Indian Institute of Information Technology Design & Manufacturing Jabalpur at village Mehgawa beside Dumna Airport Road jabalpur under (O&M) Jabalpur Division. ~~Rs. 12859205.00~~ ~~G.T. of the Estimate~~ ~~Rs. 824463.00~~ ~~Supervision charges @ 5%~~ ~~Rs. 409852.00~~ ~~Server Tax @ 12.36%~~ ~~S.T. @ 10.33%~~ ~~Rs. 13114268.00~~ ~~13328340~~ ~~Rs. 13015050/-~~ ~~Rs. 531503/-~~ ~~Rs. 621432/-~~ ~~Rs. 54905/-~~ ~~Rs. 64194/-~~

ND SCOPE The Estimate for The Director Prof. S. Bhargava of PDPM Indian Institute of Information Technology Design & Manufacturing, Jabalpur at village Mehgawa beside Dumna Airport Road Jabalpur has applied for a new H.T. connection for 1500 KVA contact demand on 33 Kv with connected load 1350 K.W. on dated 04.02.2008 for educational purpose has been sanctioned vide Estimate no.45-000-4452-08-0018 dated 17/07/08 for amount of Rs. 63,39,922/-

ESTIMATION SANCTIONED 2/10/08 dated 2/10/08 dated 04.02.2008 for educational purpose has been sanctioned vide Estimate no.45-000-4452-08-0018 dated 17/07/08 for amount of Rs. 63,39,922/-

C.E. (JR)

To meet the above demand there are extension of 33 KV seprate feedere over a rute length of 3.2 KM from Sita Pahad Sub-Station (City Circle Jabalpur) with providing of additional 33 KV Bay and Duble circuit on existing 33 KV line Gora Bazar to Sita Pahad S/Str. Last span about 50 Mtrs. will be drawn with 33 KV A.B. Cable

The proposed 33 KV line will be erected throught hills with many curve beside the Dumna Road. Hence 10 Nos. DP structure are proposed in the estimate as per encloseed sketch. The revision of estimate is requied due to less provision of 33 kv line in the above estimate and also rute of the 33 kv line has been change due to military area.

Accordingly this estimate is framed

- ASPECTS
- 1) 33 KV Line on 52 Kg/Mtr. 13 Mtr. Lond Rail support with Raccon 3.2 KM.
 - 2) 33 KV D.P. Structure 52 Kg/ Mtr. Long Rail Support 10 Nos.
 - 3) 33 KV 3 Core 70 Sqmm A.B. Cable 50 Mtrs.
 - 4) Carpet gaurding 32 Span
 - 5) 33 KV aool. Bay at Sita Pahad. Gora Bazar S/S 02 Nos.
 - 6) Installation of 33 KV VCB at Sita Pahad Gora Bazar 02 Nos.
 - 7) Existing of 33 KV line Gora Bazar to Sita Pahad 33/11 KV S/S Converted to double circuit 10 Km.

PROVISION Deposite year 2008-09 2009-10

ION 10.502 & 10521

ENGINEER LTD PIPARIYA D/C.

ASSISTANT ENGINEER
MPPKVV CO. LTD. ADHARTAL "R" S/D
Adhartal (R) Sub Dn.

SIGNED

A. E (Works)
(O & M) Dn.

Executive Engineer (O&M)
MPPKVV Co. Ltd., JBP.

Circle
CL. JBP.
M.P.P.K.V.V. Co. Ltd. JBP,

ABSTRACT OF SCHUDLE

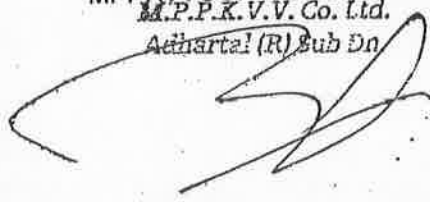
ESTIMATE Estimate for providing 1500 KVA load on 33 KV to M/S PDPM Indian Institute of Information Technology Design & Manufacturing Jabalpur at Village Mehgawa beside Dumna Airport Road Jabalpur under (O&M) Jabalpur Division.

ABSTRACT OF SCHUDLE

ARTICULA OF SCHUDLE	Schedule Cost	5% SUPERVISION CHARGES	(10.33%) SERVICE TAX ON SUPERVISION CHARGES	TOTAL
S PER SCHUDLE "A"	4540436	486248	19302	4746587
S PER SCHUDLE "B"	5199663	213978	22104	5435745
S PER SCHUDLE "C"	423965	1744	1802	443214
S PER SCHUDLE "D"	2264578	113229	1169	2389507
total Rs.	12428542	621432	64194	13114268

ENGINEER
LTD PIPARIYA D/C.

ASSISTANT ENGINEER
MPPKVVCO. LTD ADHARTAL "R" S/Dn.
M.P.K.V.V. Co. Ltd.
Adhartal (R) Sub Dn



Executive Engineer (O&M)
MPPKVV Co. Ltd. JBP

Asst. Engineer (Work)
(AD & VI) Dn.
M.P.K.V.V. Co. Ltd. JBP.

Sl. No.	Cost Schedule	Sub 5%	Service Tax 10.33% Sub	Total
Sub A	4743690/2	237175/2	24429/2	5005094/2
Sub B	5199663/2	259983/2	26778/2	5486424/2
Sub C	423965/2	21198/2	2183/2	447353/2
Sub D	2264578/2	113229/2	11662/2	2389507/2
	12631696/2	631585/2	65052/2	1,33,28,340/2

Particulars	Unit	Qty	Rate (Rs.)	Amt (Rs.)
2	3	4	5	6
52 Kg./Mtr. 13Mtr. Long rail pole	Nos.	72	37,726	2,716,272
33 KV 'V' cross-arms with back clamps 75x75x6 mm angle	Nos.	54 (18)	1,273	68742/- 22,914
33 KV Top clamps 75x75x6 mm Angle	Nos.	87	185	16,095
Earthing Set (Coil earth as per Drg.No.G/007)	Nos.	72	151	10,872
33 KV Pin Insulator with G.I.Pins	Nos.	136	314	42,704
DOG Eq.AAAC Conductor (100Sq.mm.AI.Eq.) with 3 % Sag	Kms.	10.75	40,277	432,978
Jointing Sleeves suitable for 80Sq.mm.AI. Eq. AAAC conductor	Nos.	30	20	600
Stay set 20 mm. complete with back clamps, stay wire 7/4,0 mm. (8.5 kg.stay wire per stay set) and turn buckles	Sets	55	1,168	64,240
Concreting of rail supports @ 0.65 Cmt.per pole including muffing of pole and @ 0.3 cmt. per.stay and @0.05 cmt. per PCC pole for base padding.	Cmt.	63.4	2,200	139,480
Red oxide paint	Ltrs.	30	113	3,390
Aluminium paint	Ltrs.	30	242	7,260
Anti climbing devices	Nos.	70	186	13,020
Danger Boards	Nos.	70	72	5,040
Binding wire and tape	Kgs.	20	105	2,100
M.S.Nuts and Bolts	Kgs.	250 (150)	72	10,800
D.C.cross- arm of 100 X 50 X 6 mm. channel 5' centre)	Set	42 (14)	3,368	47,152
33 KV Strain set with hard ware	Set	45	712	32,040
Horizontal and cross bracing 5' centre with set of four back clamps	Set	14	2,673	37,422
Single Pole Cute Point fitting 100x50x6 mm	Set	14	1,458	20,412
Side cross arm	Set	6	2,161	12,966
Stay clamp A-type and B-type for rails	Pair	175	155	27,125
I Bolt 16mm		20	37	740
33 KV Garding channel	Set	18	2,341	42,138
G.I. Wire 8 SWG	Kg.	200	5200	10,400
M.S. Angle	Kg.	100	38.25	3,825
Sundries	LS	LS	LS	15,000
Total				3,736,985
Centages charges			11.5 %	429,753
Labour & Transportation charges @ 10% of material cost				373,698
Grand Total				4,540,436

18000/2
141456/2
61236/2
3909046/2
449540/2
390904/2

Total Cost of est say R. 45,46,587/- or)
S.I. Sup. C.R. 186,848/-
ENGINEER S.T. @ 10/33/ R. 19302/-
CO. LTD PIPARIYA D/C.

S.I. Sup. C.R. 186,848/-
16/33/ 19302/-
227022
23451
4746587/-
4790909
M.P.P.K.V.V. Co. Ltd.
Adhartal (R) S/Dn.

A. L. (183)
(O & M) Ltd.
M.P.P.K.V.V. Co. Ltd. JBP.

4743490
57 → 837175/-
Executive Engineer (O&M)
MPPKVV Co. Ltd., JBP

- The E.E.(M.T.) Division, MPPKVVCL Rampur, Jabalpur
- The Sr. A.O. (JC) MPPKVVCL Jabalpur.
- The A.E. MPPKVVCL Adhartal "R" S/Dn.

ESTIMATE SCHUDLE "B"

ESTIMATE

Estimate for providing 1500 KVA load on 33 KV to M/S PDPM Indian Institute of Information Technology Design & Manufacturing Jabalpur at village Mehgawa beside Dumna Airport Road Jabalpur under (O&M) Jabalpur Division

SCHUDLE "B" FOR 33 KV LINE FOR DOUBLE FEEDER CIRCUIT ON EXISTING LINE (GORA BAZAR TO SITA PAHAD 33/11 KV S.Stn.)

PARTICULAR	UNIT	RATE	QTY	AMOUNT
Kg./Mtr. 13Mtr. Long rail pole	No.	37726.00	23	867698.00
Cross arm 100x50 mm channal 5' centre P & TP)	Set.	3368.00	60	202080.00
Arthing Set (Coil earth as per g.No.G/007)	Set.	151.00	30	
KV stain set with H/W	Set.	712.00	150	106800.00
KV "V" cross arm with back clamp	No.	1273.00	130	165490.00
KV Top Clamp	No.	185.00	120	22200.00
KV Pin Insulator with G.I. Pin	No.	314.00	430	135020.00
Stay set 20 mm. complete with back clamps, stay wire 7/4.0 mm. (8.5 kg. stay wire per stay set) and turn buckles	Sets	1168.00	120	140160.00
Concreteing of rail supports @ 0.65 Cmt. per pole including muffing of pole and @ 0.3 cmt. per stay and @0.05 cmt. per PCC pole or base padding.	Cmt.	2200.00	51	112200.00
Horizontal and cross bracing 5' centre with set of four back clamps	Set	2673.00	30	80190.00
Red oxide paint	Ltrs.	113.00	100	11300.00
Aluminium paint	Ltrs.	242.00	100	24200.00
Anti climbing devices	No.	186.00	120	22320.00
Warning Boards	No.	72.00	120	8640.00
Stay clamp A-type and B-type for rails	Set.	155.00	400	62000.00
DOG Conductor AAAC cond.(3/ seg)	Km.	55001.00	40	2200040.00
A.S. Nut & bolt	Kg.	72.00	300	21600.00
Binding wire and Tap	Kg.	105.00	50	5250.00
Jointing sleeves suitable for DOG Cond.	No.	20.00	50	1000.00
33 KV Guarding channel	Set.	2341.00	20	46820.00
Bolt 16 mm	No.	37.00	144	5328.00
V.S. Channel	Kg.	31.39	70	2197.30
M.S. Angle	Kg.	38.25	100	3825.00
G.I. Wire 8 SWG	Kg.	52.00	350	18200.00
Sundries	LS.	LS.	LS.	15000.00
TOTAL				4,279,558.30
Centages 11.5% Rs.				492,149.20
Labour & Transport Charges 10 % cost of Material Rs.				427,955.83
TOTAL Rs.				5,199,663.33
5% Supervision Charges on Material Rs.				25998.3
Service Tax on Supervision Charges @ 10.33% Rs.				26856
Grand Total				5435745.33

ENGINEER
O. LTD PIPARIYA D/C.

ASSISTANT ENGINEER
MPPKVV CO. LTD. ADHARTAL "R" S/Dn.
M.P.P.K.V.V. Co. Ltd.
Adhartal (R) Sub Dn.

A. E. (Works)
(O & M) Dn.
M P P. K. V. V. Co. Ltd. JBP

Executive Engineer (O&M)
MPPKVV Co. Ltd., JBP

(Total Cost of Est. See R. 5435745/- or
S.T. Sup. G. R. 213,928/- or
S.T. @ 10.33% R. 22104/- or

IMATE

Estimate for providing 1500 KVA load on 33 KV to M/S PDPM Indian Institute of Information Technology Design & Manufacturing Jabalpur at village Mehgawa beside Dumna Airport Road Jabalpur under (O&M) Jabalpur Division

UDLE "C" FOR CARPET GUARDING A.B.CABLE SPAN AND METERING D.P. STRUCTURE FITTINGS.

PARTICULAR	UNIT	RATE	QTY	AMOUNT
Guarding Channel sets	Set.	2,341.00	33	77,253.00
set 20 mm complete for guarding	Set.	1,168.00	10	11,680.00
certing @ 0.3cmt. Per stay.	Cmt.	2,200.00	3.00	6,600.00
Wire 8 SWG	Kg.	52.00	350	18,200.00
Cross arm 8' centre (100x50mm)	Set.	3,368.00	2	6,736.00
climbing devices	No.	186.00	2	372.00
3 Type clamp for rails	Pairs	155.00	20	3,100.00
hook clamp for rail pole	No.	155.00	37	5,735.00
& Bolt	Kg.	72.00	100	7,200.00
oxide paint	No.	113.00	10	1,130.00
minium paints	No.	242.00	10	2,420.00
thing arrangement as per app. DRG. No. ID//EZ/06/03. For M.E.	Set.	2,462.00	1	2,462.00
KV A.B. cable 3 core 70 sqmm with earth	Mtrs.	2,500.00	60	150,000.00
3. Cable Hanging clamps	No.	425.00	2	850.00
able end Jointing Kit 33 KV	No.	18,000.00	2	36,000.00
KV L.A.	Set.	3,447.00	2	6,894.00
I. Pipe 40 mm	Mtrs.	198.00	10	1,980.00
I. Socket 40 mm	No.	50.00	3	150.00
I. Bend 40 mm	No.	60.00	3	180.00
JNDRIES	LS.	LS.	LS.	10,000.00
TOTAL				348,942.00
Centages 11.5% Rs.				40,128.33
Labour & Transport Charges 10 % cost of Material Rs.				34,894.20
TOTAL Rs.				423,964.53
5% Supervision Charges on Material Rs.				17,447.10 21198
Service Tax on Supervision Charges @10.33% Rs.				1802.00 2190
Grand Total				443,214.53 447,353

(Total Cost of Est Say B. ~~4,43,214~~ /- orr.)
 S.I. Sup A.R. ~~17,447~~ /- orr. S.T. @10.33% R. ~~1802~~ /- orr.)

ENGINEER
 O. LTD PIPARIYA D/C.

(Signature)
 ASSISTANT ENGINEER
 MPPKVV CO. LTD ADHARTAL "R" S/Dn.
 M.P.P.K.V.V. Co. Ltd.
 Adhartal (R) Sub Dn.

(Signature)
 A. E. (Working)
 (O & M) Dn.
 M.P.P.K.V.V. Co. Ltd. JBP,

(Signature)
 Executive Engineer (O&M),
 MPPKVV Co. Ltd., JBP

ESTIMATE SCHEDULE "D"

59

ESTIMATE

Estimate for providing 1500 KVA load on 33 KV to M/S PDPM Indian Institute of Information Technology Design & Manufacturing Jabalpur at village Mehgawa beside Dumna Airport Road Jabalpur under (O&M) Jabalpur Division

SCHEDULE "D" For Sita Pahar S/S and Gorabazar S/S

PARTICULAR	UNIT	RATE	QTY	AMOUNT
33 KV out door yard extension for additional / with circuit breaker (Schedule B-4)	B-4	733,289.00	2	1,466,578.00
Installation of 33 KV VCB (Schedule B-5)	B-5	399,000.00	2	798,000.00
TOTAL				2,264,578.00
5% Supervision Charges on Material Rs.				113,229.00
Service Tax on Supervision Charges @ 10.33% Rs.				11,692.00
Grand Total				2,389,504.00

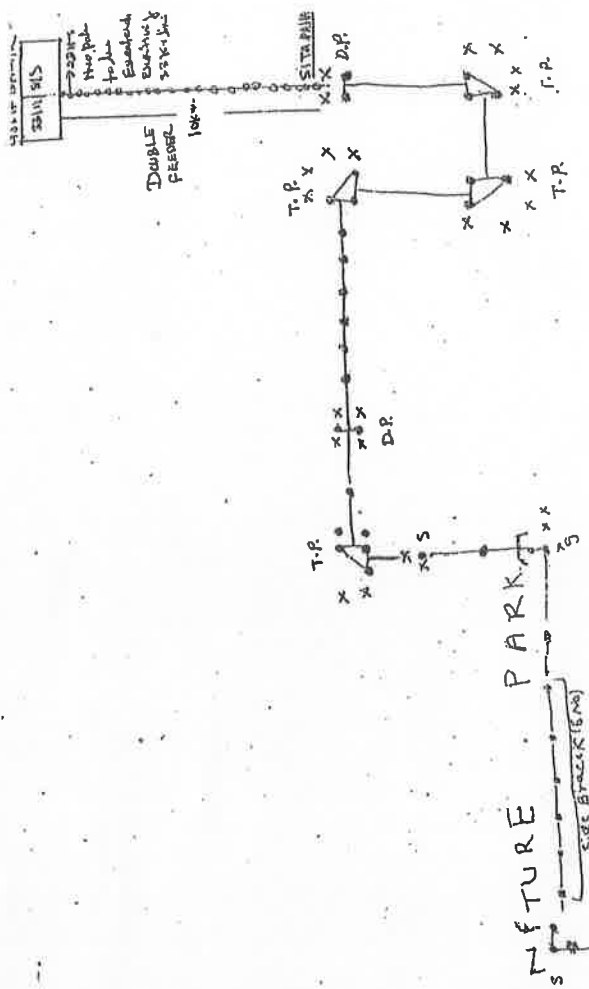
(Total Cost of Est sag B 2389504/- or
5% Sup. A.R. 113,229/- & S.T. (10.33%) R. 11692/-

ENGINEER
LTD PIPARIYA D/C.

ASSISTANT ENGINEER
MPPKVV CO. LTD. ADHARTAL "R" S/Dn.
M.P.P.K.V.V. Co. Ltd.
Adhartal (R)

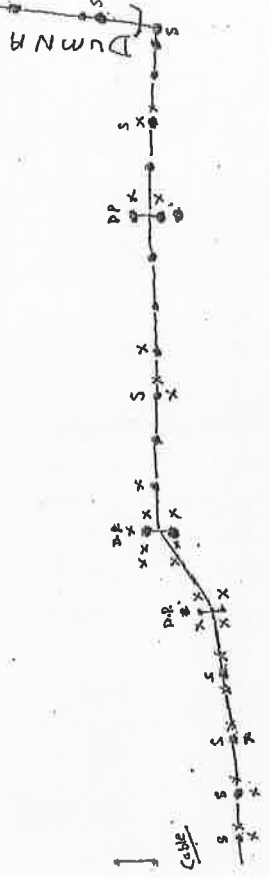
A. E. (Works)
(O & M) Dn.
M.P.P.K.V.V, Co. Ltd. JBP,

Executive Engineer (O&M),
MPPKVV Co. Ltd., JBP



Plan for power supply to ISCOPIA and W.T. connection, etc. etc.
 to the P.D.P. line. Installation of transformer, etc. etc.
 in accordance with the plan of the project.

MFTURE PARK
 SIDE TRACK (6 MS)



- Index
- ① STAY SET - X (53 NOS.)
 - ② POIL PILE - 0 (62 NOS.)
 - ③ STREET PILE - 0 (9 NOS.)
 - ④ GREEN BARRACADES
 - ⑤ NEW SUPPLY
 - ⑥

A. E. [unclear]
 (C.B. [unclear])
 M.P.K.V. Co. Ltd. JBP.

Approved by
 M.P.K.V. Co.
 JBP.

ANNEXURE
B&WC/2010/21A-7

**Preliminary-cum-Detailed Estimate for
construction of Road Network (Phase- I) at
PDPM-IIITDM**

(Page P-61 to P-69)

Name of Work: Construction of Road work phase 1 (with premix carpeting) at
PDPM-IIITDM, Jabalpur

SUMMARY OF COST

Sl. No	Description	Amount in Rs.
1	Vetted Cost of Building (A) (including Labour Cess @1%, For quality assurance @ 1% & Contingency @3%)	2,41,75,000=00
2	Architects Fees @5.515 % (5% fee + Service tax @ 10.30%)	13,33,251=00
	Grand Total	2,55,08,251=00

Says Rs 255 Lacs

2/9

**GOVERNMENT OF INDIA
CENTRAL PUBLIC WORKS DEPARTMENT**

STATE: M.P.

BRANCH: BCC/ CPWD/ Bhopal

BRANCH: B & R

DIVISION: BCD-II/Bhopal

ESTIMATE No. : 07/SE/BCC/10-11

Name of work : C/o Road work Phase-I (With premix carpeting) at IIITD & M, Jabalpur (MP)

Major Head	Minor Head	Detailed Head

This Preliminary cum detailed estimate amounting to Rs. 2,41,75,000/- has been prepared by the M/s Architect Atelier Consultant of IIITD&M and received through Director, IIITD & M. Estimate processed by Er. S.K. Chawala, Executive Engineer, BCD-II, CPWD, Bhopal and further processed by Er. D.S. Bhuraskar, Executive Engineer(P&A), Bhopal Central Circle, CPWD, Bhopal.

REPORT

HISTORY: This Preliminary Estimate amounting to Rs. 2,41,75,000/- i/c 3% contingencies has been framed to meet the probable cost of above work and for accord of administrative approval and expenditure sanction from the competent authority.

The requisition for the work has been received from Director, IIITD&M, Jabalpur (MP) vide letter No. IIITDM/Dir./2010/07 dt. 03.07.2010

DESIGN & SCOPE:- This Preliminary Estimate has been framed based on Drg. No. RR-01 to RR-11 received along with the estimate. The following provisions has been made in this estimate:

- (1) Double Road from JN-1 to JN-3 with 17.00 m wide sub grade and 5.50 m double carriage way for the length of 560 m.
- (2) Single Road from JH2 to JN-5 and JN-5 to JH-3 with 11-50 m wide sub grade and 7.50m carriage way for the length of 840m.
- (3) WBM with 100mm and 75mm thick layer of 90 mm to 45mm and 63mm to 45 mm stone aggregate respectively.
- (4) 2.5 cm premix carpet over 50 mm thick Bitumen Macadam.
- (5) 60 mm thick factory made inter-locking pave~~2~~ blocks; 2.00 .mm wide path way on both sides of road.
- (6) Kerb channel 30 cm wide and 50 mm thick with Cement concrete 1:3:6 cm both side of roads.
- (7) Factory made M-25 Kerb stones on both sides of Road.
- (8) R.C.C. culverts 3 Nos..
- (9) NP₂ RCC pipes 450 mm dia and 600 mm dia for Rain water and service pipes.

.....2

:: 2 ::

SPECIFICATION : The work shall be carried out as per CPWD specifications
2009 Vol. I to II with upto date corrections.

RATE: DSR 2007 + 22% Cost Index.

COST: Rs. 2,41,75,000/- /c 3% contingencies.


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

LAND: Available with client.

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

TIME: 08 Months after receipts of necessary A/A & E/S.

METHOD: By Contract after call of tenders.


Assistant Engineer (P)
Bhopal Central Circle -
Central P.W.D., Bhopal


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



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ABSTRACT OF COST

N^o C^o Road Net work Phase-I (With premix carpeting) at HTDM, Jabalpur

Subhead No.	Subhead Name	Amount
1	EARTH WORK	2,073,145
2	CONCRETE WORK	1,31,265
3	REINFORCED CEMENT CONCRETE WORK	3,414,754
4	ROAD WORK	12,047,977
5	DRAINAGE	1,188,747
	Total	18,858,888
	Add Cl on SchItems 1,00,58,888 @ (122.00 - 100)/100	4,148,955
		23,007,843
	Add 1% Labour Cess	230,078
		23,237,921
	Add 1% ^{quality} insurance	232,379
		23,470,301
	Add contingencies @ 3.00% on 2,30,07,843	704,109
	Total Estimated Cost In Rupees	24,174,410

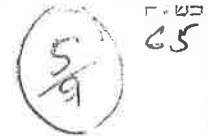
SAY Rs.2,41,75,000/-

(Rupees Two Crore Forty one lacs Seventy five thousand only)

Asstt. Engineer (P)
Bhopal Central Circle,
Central P.W.D., Bhopal

13.07.2010
Superintending Engineer
Bhopal Central Circle,
Central P.W.D., Bhopal

Executive Engineer (P)
Bhopal Central Circle,
Central P.W.D., Bhopal



DETAILED ESTIMATE



N/W: C/o Road Net work Phase-I (With premix carpeting) at HTDM, Jabalpur

Item No.	Description	Unit	Quantity	Rate	Amount
Sub Head: 1 - EARTH WORK					
1.1 2.6	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.				
1.1.1 2.6.1	All kinds of soil	cum	9,000.00	101.85	916,650
1.2 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 50 m and lift up to 1.5 m, disposed earth to be levelled and neatly dressed.				
1.2.1 2.7.1	Ordinary rock	cum	3,000.00	152.60	457,800
1.3 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 20cm 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:				
1.3.1 2.10.1	All kinds of soil				
1.3.1.1 2.10.1.3	Pipes, cables etc. exceeding 300mm dia but not exceeding 600mm.	metre	2,300.00	179.65	413,195
1.4 2.13	Excavating trenches of required width for pipes, cables, etc, including excavation for sockets, depth up to 1.5 m including getting out the excavated materials, returning the soil as required in layers not exceeding 20cm in depth including consolidating each deposited layers by ramming, watering etc. stacking serviceable material for measurements and disposal of unserviceable material as directed, within a lead of 50m :				
1.4.1 2.13.1	Ordinary rock:				
1.4.1.1 2.13.1.3	Pipes, cables exceeding 300mm dia but not exceeding 600mm dia	metre	1,000.00	285.50	285,500
Total for SH: 1 - EARTH WORK:					2,073,145

Sub Head: 2 - CONCRETE WORK

NW 1 - Road Network Phase I (With pre-mix concrete) at HHTM, Jabalpur

Item No	Description	Unit	Quantity	Rate	Amount
2.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering. All work up to plinth level:				
2.1.1	1:5:10 (1 cement : 5 coarse sand : 10 graded stone aggregate 40mm nominal size)	cum	60.91	187.25	11315.28
Total for S.H. 2 - CONCRETE WORK:					11315.28

Sub Head: 3 - REINFORCED CEMENT CONCRETE WORK

3.1	Providing and laying in position specified grade of reinforced cement concrete excluding the cost of centering, shuttering, finishing and reinforcement. All work up to plinth level:				
3.1.1	1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20mm nominal size)	cum	110.91	127.00	14063.87
3.2	Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and stuts etc. up to floor five level excluding cost of centering, shuttering, finishing and reinforcement.				
3.2.1	1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20mm nominal size)	cum	91.91	127.25	11696.44
3.3	Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15° landings, balconies, shelves, chajjis, hotels, bands, plain window sills, staircases and spiral stair cases up to floor five level excluding the cost of centering, shuttering, finishing and reinforcement with 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20mm nominal size).	cum	110.91	127.25	14063.87
3.4	Centering and shuttering including strutting, propping etc. and removal of form for:				
3.4.1	Foundations, footings, bases of columns, etc. for mass concrete.	sqm	62.13	110.25	6850.00
3.4.2	Walls (any thickness) including attached pilasters, buttresses, plinth and string courses etc.	sqm	142.91	129.10	18458.21
3.4.3	Suspended floors, roofs, landings, balconies and access platform.	sqm	100.91	117.25	11825.00
3.5	Supplying and filling local moorum in trenches, bases of roads etc. in layers not exceeding 20 cm in depth consolidating each deposited layer by road roller of 8 to 10 tonne capacity including watering for all lead and lift complete. (The measurement shall be only for the completed quantity.)	cum	4,700.91	291.25	1369152.88
3.6	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete				
3.6.1	Thermo Mechanically Treated bars	kilogram	91,000.91	10.25	932808.28

7/2

N/W C/o Road Network Phase-I (With premix carpeting) at HHTDM, Jabalpur.

Item No.	Description	Unit	Quantity	Rate	Amount
Total for SH: 3 - REINFORCED CEMENT CONCRETE WORK:					3,414,754

Sub Head: 4 - ROAD WORK

4.1 16.1	Preparation and consolidation of sub grade with power road roller of 8 to 12 tonne capacity after excavating earth to an average of 22.5cm. depth, dressing to camber and consolidating with road roller including making good the undulations etc. and re-rolling the sub grade and disposal of surplus earth lead upto 50 metres.	sqm	18,840.00	33.90	638,676
4.2 16.3	Supplying and stacking at site.				
4.2.1 16.3.1	90mm to 45mm size stone aggregate.	cum	1,570.00	742.30	1,165,411
4.2.2 16.3.2	6mm to 45mm size stone aggregate.	cum	900.00	768.15	691,605
4.2.3 16.3.6	Stone screening 13.2mm nominal size (Type A).	cum	370.00	892.25	330,133
4.2.4 16.3.7	Stone screening 11.2mm nominal size (Type B).	cum	200.00	979.40	195,880
4.2.5 16.3.10	Moorim.	cum	300.00	421.85	126,555
4.3 16.4	Laying, spreading and compacting stone aggregate of specified sizes to WBM specifications including spreading in uniform thickness, hand picking, rolling with 3 wheeled road / vibratory roller 8-10 tonne in stages to proper grade and camber, applying and brooming requisite type of screening / binding material to fill up interstices of coarse aggregate watering and compacting to the required density.	cum	2,150.00	192.55	413,983
4.4 16.30	Providing and applying tack coat using hot straight run bitumen of grade 80/100 including heating the bitumen, spraying the bitumen with mechanically operated spray unit fitted on bitumen boiler, cleaning and preparing the existing road surface as per specifications;				
4.4.1 16.30.1	On W.D.M. @ 0.75 kg/sqm.	sqm	12,240.00	23.90	292,536
4.5 16.35	2.5cm premix carpet surfacing with 3 cum of stone chippings 10mm nominal size per 100 sqm and bitumen emulsion (medium setting min. 65% bitumen contents) complying with IS : 8887-1995 using 96 kg per cum of chippings of road surface including consolidation with road roller etc complete with the help of motorised vibrator of finisher etc.	sqm	12,240.00	101.15	1,238,076
4.6 16.47	Painting runway/taxi track/apron marking with adequate no. of coats to give uniform finish with road marking paint of superior make as approved by the Engineer in-charge i/c cleaning the surface of all dirt, scales, oil, grease and other foreign material etc. and lining out complete.				

N/W: Co Road Net work Phase-I (With premix carpeting) at MIDM, Jabalpur.

Item No.	Description	Unit	Quantity	Rate	Amount
4.6.1 16.47.1	New work (Two or more coats)	sqm	2,600.00	70.15	182,390
4.7 16.53	Providing and laying Bituminous Macadam on prepared surface with specified graded crushed stone aggregate for profile corrective base / binder course including loading of aggregate with F.E. loader, hot mixing of stone aggregates and bitumen in hot mix plant, transporting the mixed material by tippers to paver and laying the mixed material with paver finisher fitted with electronic sensing device to the required level and grade and rolling with road rollers, as per MORTH specification to achieve the desired density and compaction but excluding the cost of primer / tack coat.				
4.7.1 16.53.1	50mm /75mm average compacted thickness with bitumen of 60/70 grade @ 3.5% (Percentage by weight of total mix)	cum	615.00	4450.85	2,737,273
4.8 16.63	Providing and laying and making kerb channel 30cm wide and 50mm thick of cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20mm nominal size) over 75mm bed of dry brick ballast 40mm nominal size well rammed and consolidated and grouted with fine sand including finishing the top smooth etc. complete and as per direction of Engineer-in-Charge.	metre	3,840.00	198.80	763,392
4.9 16.68	Providing and laying 60mm thick factory made cement concrete interlocking paver block of M30 grade made by block making machine with strong vibratory compaction and of approved size and design / shape laid in required colour and pattern over and including 50mm thick compacted bed of coarse sand, filling the joints with coarse sand etc. all complete as per the direction of Engineer-in-Charge.	sqm	5,520.00	346.35	1,911,852
4.10 16.68.1	Supplying and filling good earth	cum	400.00	189.75	75,900
4.11 16.69	Providing and laying at or near ground level factory made kerb stone of M-25 grade cement in position to the required line, level and curvature jointed with cement mortar 1:3 (1 cement : 3 coarse sand) including making joints with or without grooves (thickness of joints except at sharp curve shall not to more than 5mm) including making drainage opening wherever required complete etc. as per direction of Engineer In-Charge (length of finished kerb edging shall be measured for payment). (Precast C.C. kerb stone shall be approved by Engineer In-Charge).	cum	302.00	4252.70	1,284,315

Total for SH: 4 - ROAD WORK: 12,047,977


Sub Head: 5 - DRAINAGE


5.1 19.6	Providing and laying non-pressure M2 class (light duty) R.C.C. pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including testing of joints etc. complete:				
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Item No.	Description	Unit	Quantity	Rate	Amount
5.1.1 1965	450mm dia. R.C.C. pipe	metre	1,500.00	499.55	749,325
5.1.2 1967	600mm dia. R.C.C. pipe	metre	300.00	895.10	268,530
5.2 1929	Constructing brick masonry road gully chamber 110x50x77.5cm with bricks of class designation 35 in cement mortar 1:4 (1 cement : 4 coarse sand) including 500x450mm pre cast R.C.C. horizontal grating with frame and vertical grating complete as per standard design:				
5.2.1 10,20,1	With F.P.S. bricks	each	40.00	4272.30	170,892

Total for SH: 5 - DRAINAGE: 1,188,747
Total **18,858,888**


Asst. Engineer (P)
Bhopal Central Circle,
Central P.W.D., Bhopal


Executive Engineer (P)
Bhopal Central Circle,
Central P.W.D., Bhopal

ANNEXURE
B&WC/2010/21A-8

Preliminary Estimate for the work of
Construction of External Lighting Works
(Phase I)

(Page P-70 to P-80)


IIT, JABALPUR

EXT-LGT-EST: 1

Project : Construction of Indian Institute of Information & Technology, Jabalpur
Subject : External Lighting Works
Abstract of Cost

SUB-HEAD	DESCRIPTION OF SUB-HEAD	AMOUNT (RS.)
SUB-HEAD-A	MV PANEL	300000.0
SUB-HEAD-B	POLES AND LUMINAIRES	5799304.0
SUB-HEAD-C	CABLING	872678.0
SUB-HEAD-D	EARTHING	77565.0
SUB-HEAD-E	CIVIL WORK	847365.0
	TOTAL	7896912.0
Amount in Figure: Rupees Seventy Eight Lacs Ninety Six Thousand Nine Hundred Twelve Only		

PDPM	JIT, IIT, JABALPUR
DISPATCH	
S No	
Date	25 JUN 2010
Signature

For Architects Atelier

 (Partner)

Project : Construction of Indian Institute of Information & Technology, Jabalpur
Subject : External Lighting Works
Bill of Quantities

S.No.	DSR/ Non DSR	Description of item	Unit	Qty.	Rate	Amount
	SUB-HEAD-A	MV PANEL				
	MR	<p>Design, fabrication, loading, unloading at store, supply, installation, testing and commissioning of EXTERNAL LIGHTING PANEL fabricated out of 2mm thick for structural members (Load bearing members) and 1.6mm thick for door and covers (Non load bearing members) CRCA sheet in cubicle compartmentalize free standing floor mounted, dust and vermin proof with reinforcement of suitable size angle iron, channel 'T' irons and / or flats wherever necessary, 16 gauge CRCA sheet steel shall be used for final distribution panels. Cable gland plates shall be provided on top as well as at the bottom of the panels. Panels shall be treated with all anticorrosive process before painting as per specifications with 2 coats of zinc chromate primer and final approved shade of enamelled paint. 2 Nos. earthing terminals shall be provided for all distribution panels. Panels shall be suitable for 415V, 3-phase, 4-wire, 50Hz supply system and with 15% spare space, lifting hooks shall also be provided in case of large panels.</p> <p>Approval shall be taken for panel before fabrication. Galvanized hardwares with zinc passivation shall be used in fabrication of panels.</p> <p>General Note:</p> <p>The rates apart from the Breakers and instruments shall also include the following :</p> <ol style="list-style-type: none"> 1 Supporting rigid steel framework. 2 Cubicle type, 14 gauge CRCA sheet steel enclosed. 3 Complete with interconnections and distribution bus bars. 4 Proper bonding to earth. 5 Painting/lettering on Breakers and distribution boards, the location they serve, providing on each panel its circuit diagram. 6 Providing cable clamps / supports within distribution boards cable alley. 7 TPN MCCB's shall mean 3 pole with adequate size of neutral link. 8 The breaking , capacity of MCCB's are mentioned panel wise. All MCCB's shall be with thermal magnetic/ microprocessor releases as per specifications. 9 Panels shall be Powder Coated with Siemens gray paint shade no.RAL-7032 of IS-5. 				


(Partner)

S.No.	DSR/ Non DSR	Description of item	Unit	Qty.	Rate	Amount
10		Degree of protection for following type of distribution panel enclosure shall be as per IS:13947-1993. a. IP 43 for indoor panels.				
11		All MCCB's shall be provided with operating mechanism for door interlock.				
12		Current density of aluminium shall be 1.25 sq mm for 1.0 amps for rated current of bus bars and current density of copper shall be 1 sq.mm for 1.25 amps for rated current of bus bars.				
13		Tinned copper / GI earth bus shall be provided through out the length of each board as per schematic diagram.				
14		All measuring instruments (Meters) shall be of digital electronic (LED Type) of approved make.				
15		All hinged door shall be earthed through 2.5 sq mm tinned braided copper wire.				
16		<p>Panels shall have provision of the following:</p> <p>a) Pad locking of Switch board doors.</p> <p>b) Pad locking of MCCB's handles in "OFF" Position.</p> <p>INCOMING :</p> <p>1 No. of 250A, 4P, MCCB's of 25 kA Breaking capacity with ON/ OFF Indicating Lamps with 2A SP MCB back-up.</p> <p>METERING FOR INCOMING :</p> <p>1 No. Digital Voltmeter of range 0-500V, selector switch and 2 Amps SP MCB back up.</p> <p>1 No. Digital Ammeter of range 0-100 A, selector switch and 3 Nos. of associated CT's of ratio 100/5 A.</p> <p>One set of phase indicating lamps with 2 Amps SP MCB backup.</p> <p>BUS BAR :</p> <p>Electrolytic high conductivity aluminium, TPN, busbars rated at 300 Amps (after deration), insulated with heat shrinkable coloured PVC sleeves & clip on shrouds for joints.</p> <p>The busbar sizing calculations shall be submitted for approval, considering all derating factors.</p> <p>OUTGOINGS :</p>				


(Partner)

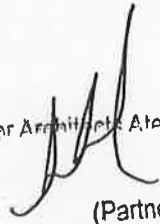
S.No.	DSR/ Non DSR	Description of item	Unit	Qty.	Rate	Amount
		(All MCB/ MCCB shall be suitable for motor duty & with heavy duty detachable solid neutral link): 15 Nos. 25A TPN, MCB's of 10 kA breaking capacity. Above outgoing feeders comprising of 1 No. 25Amp, 10 kA, TPN MCB and 1 No. 32Amp TP Contactor with dual setting 24 hours calibrated time switch (timer) for automatic operation of the supply. External Lighting Panel as described as above and complete in all respects.	Set	1	300000.0	300000.0
Total of Sub-head C/F to Summary						300000.0

For Architects Atelier

(Partner)

S.No.	DSR/ Non DSR	Description of item	Unit	Qty.	Rate	Amount
SUB-HEAD-B		POLES AND LUMINAIRES				
1.0	MR	Design, supply, loading, transporting, unloading, handling to site of 10 Mtrs MS Hot dip galvanized Pole with twin bracket of 1.5 m length on either side at Same height at 12.0 M level with 15 deg tilt up wards][Pole will be eight sided continuous tapered as per drg. [Provision for inside termination box with 4-way connector & 2nos 10 AMPS MCB for local isolation plus from switches below to Street Light Luminaires connection by using flexible copper wire.	Nos.	18	14400.0	259200.0
2.0	MR	Design, supply, loading, transporting, unloading, handling to site of 12 Mtrs MS Hot dip galvanized Pole with single bracket of 1.5 m length at 12.0 M level with 15 deg tilt up wards][Pole will be eight sided continuous tapered as per drg. [Provision for inside termination box with 4-way connector & 2nos 10 AMPS MCB for local isolation plus from switches below to Street Light Luminaires connection by using flexible copper wire.	Nos.	48	13200.0	633600.0
3.0	DSR 2007-(ERSPCC1 2H)	Erection of metallic street light standard pole of length exceeding 10 metres but not exceeding 12 metres in cement concrete 1:3:6 (1 cement : 3 coarse sand: 6 graded stone aggregate 40 mm nominal size) foundation including excavation and refilling etc as required.	Each	18	1569.0	28242.0
4.0	DSR 2007-(ERSPCC1 0)	Erection of steel tubular or steel rail pole of length exceeding 8 metres but not exceeding 10 metres in cement concrete 1:3:6(1 cement: 3 coarse sand: 6 graded stone aggregate) 40mm(nominal size) foundation including excavation & filling etc. complete as required.	Each	48	1343.0	64464.0
5.0	MR	Supplying & fixing dust and weather proof gasketed 250mm x 200mm x 100mm (deep) nominal size MS sheet steel cable looping box on the existing MS pole with MS clamp made out of 25mm x 3mm thick flat iron with suitable nuts & bolts complete with hinged cover and locking screws and washers earth studs including supplying and fixing 1No. 25A DP MCB (10KA) and 4 way terminal block suitable for receiving 4 Core, 16/25/35/50Sq.mm PVC cables, fixed on suitable size of bakelite sheet base complete with interconnections, painting etc.	Each	66	1000.0	66000.0
6.0	DSR-2007 External (POLPIP50)	Supply & fixing of GI pipe of 50mm dia (nominal) 3 metres length along the pole for protection of underground cable as required.	Each	66	603.0	39798.0
7.0	DR DSR-2007 External (POLPIP50)	Supply and drawing 3 x 2.5 Sq.mm FR PVC insulated copper conductor single core cable in the existing pole from cable looping box upto light fixture.	Metre	100	40.0	4000.0


For Architects Atelier



(Partner)

architects atelier

S.No.	DSR/ Non DSR	Description of item	Unit	Qty.	Rate	Amount
8.0	MR	Supply & fixing of 84 watt LED street light fixture IP-65 suitable for pole mounting complete (Mounted on 12/10 metre pole) with 84 watt LED light, controlgear etc. of Wipro Cat Ref LR 15 -084-XXX-WH-XX(84W) and Philips Cat Ref GPLS 49 LED 90W/102W LEH2	Each	84	56000.0	4704000.0
Total of Sub-head C/F to Summary						5799304.0



For Architects Atelier


(Partner)

S.No.	DSR/ Non DSR	Description of item	Unit	Qty.	Rate	Amount
SUB-HEAD-C						
CABLING						
1.0	MR	Supply of following sizes of XLPE insulated PVC sheathed, Aluminium conductor armoured power cable of 1.1 KV grade conforming to IS 7098 amended upto date.				
a)		4C x 25 sq.mm	Metre	1150	200.0	230000.0
b)		4C x 16 sq.mm	Metre	500	180.0	90000.0
c)		4C x 10 sq.mm	Metre	1650	120.0	198000.0
2.0	DSR External 4.1 (MVET)	Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated PVC sheathed/XLPE aluminium conductor cable of 1.1 KV grade as required.				
a)		4C x 25 sq.mm	Set	36	137.0	4932.0
b)		4C x 16 sq.mm	Set	26	196.0	5096.0
c)		4C x 10 sq.mm	Set	120	104.0	12480.0
2.1	DSR External 1.1 (MVCBGR 25)	MV cable laying upto 25 sq.mm in ground: Laying of one number PVC insulated and PVC sheathred / XLPE power cable of 1.1 KV grade of size not exceeding 25 sq .mm direct in ground including excavation, sand cushioning, protective covering and refilling the trench etc. as required.	Metre	3000	85.0	255000.0
3.0	DSR 2007 Subhead-19 Drainage	Hume Pipes: Providing and laying non-pressure NP-2 Class (light duty) RCC pipe with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 Cement : 2 Find Sand) including testing of joints etc. complete.				
	19.6.4	300mm dia. R.C.C. pipe	Metre	200	338.8	67750.0
4.0	DSR 2007 CBRMGI	Supply & fixing of Cable route marker with 10cm x 10 cm x 5 mm thick GI plate with inscription there on, bolted/welded to 35mm x 35mm x 6mm angle iron, 60 cm long and fixing the same in ground as required.	Nos.	60	157.0	9420.0
Total of Sub-head C/F to Summary						872678.0

For Architects Atelier

(Partner)

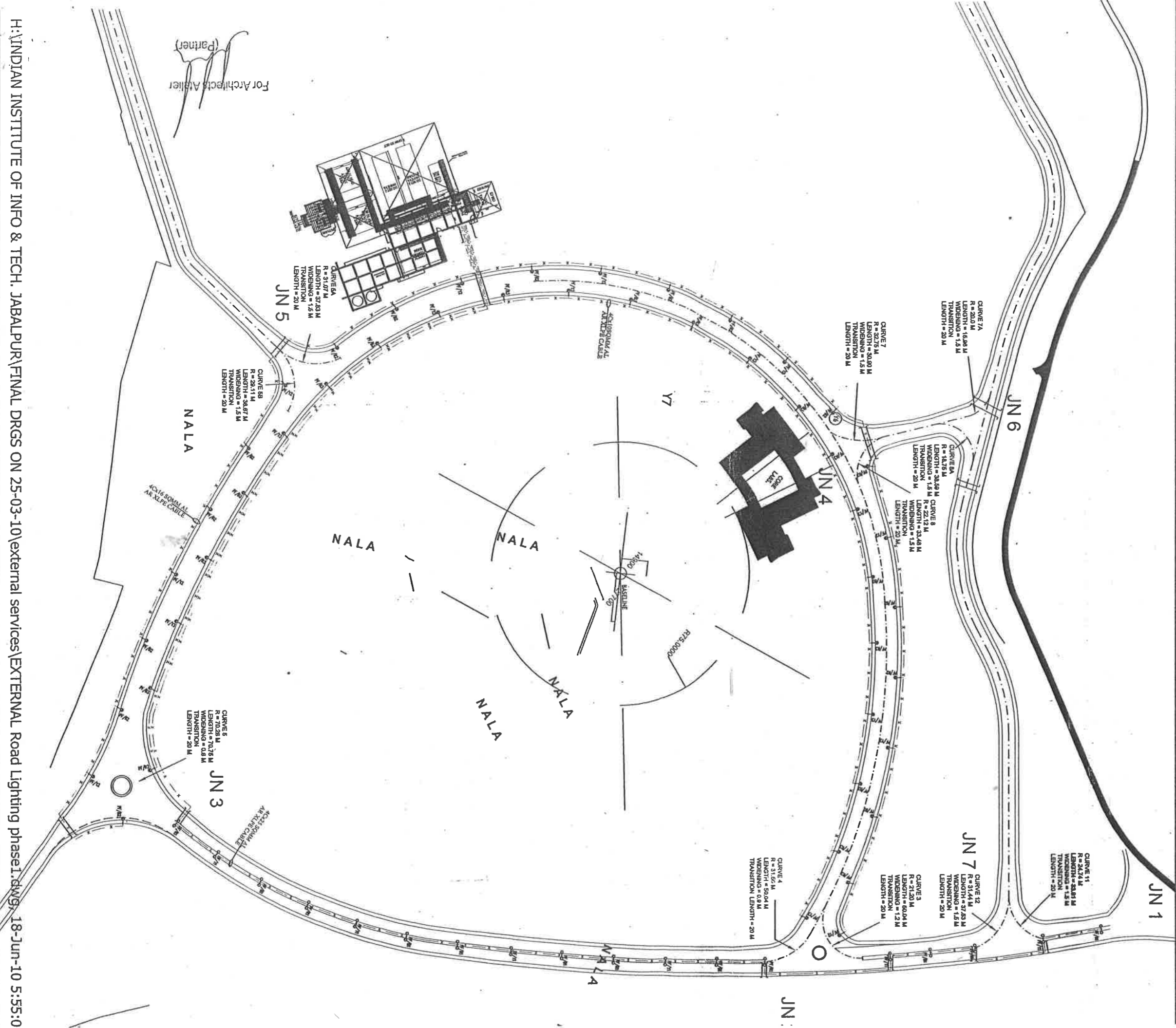
S.No.	DSR/ Non DSR	Description of item	Unit	Qty.	Rate	Amount
SUB-HEAD-D		EARTHING				
		Supply, installation, testing and commissioning of the following :				
1.0	DSR Internal 2007 3.2 (EARPIPC HAR)	G.I. earth pipe electrode with Salt/charcoal : Earthing with G.I. earth pipe 4.5 mtr long , 40 mm dia including accessories and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc with charcoal or coke and salt complete as required.	Set	15	1971.0	29565.0
2.0	DSR Internal 2007 3.10 (EAR6GGI WR)	S/F 6 SWG G.I. wire in Ground : Supplying and laying 6 SWG G.I. wire at 0.50 metre below ground level for conductor earth electrode, including soldering etc .as required.	Metre	3000	16.0	48000.0
Total of Sub-head C/F to Summary						77565.0


Faruk Anwar

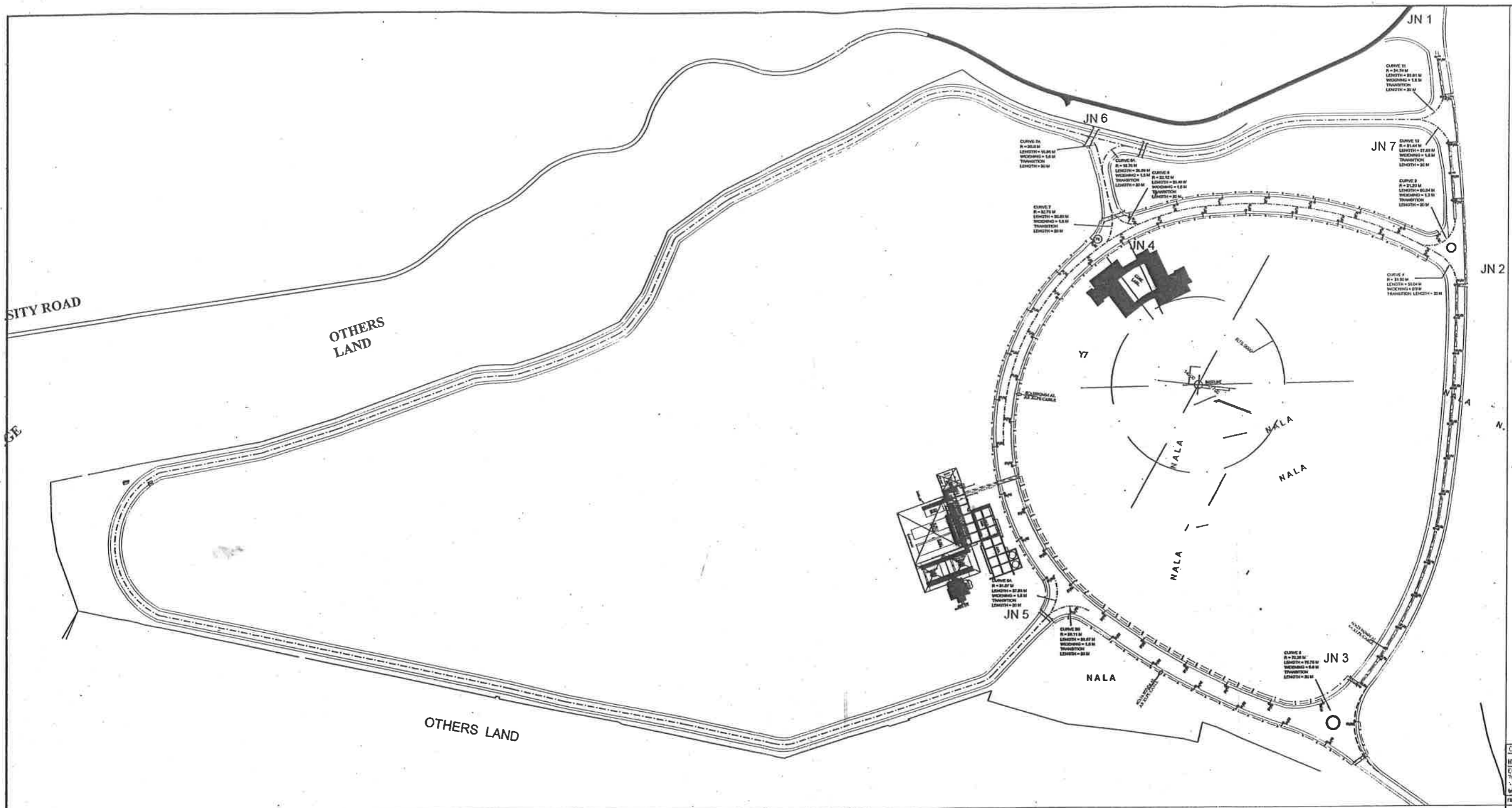
(Partner)

S.No.	DSR/ Non DSR	Description of item	Unit	Qty.	Rate	Amount
SUB-HEAD-E		CIVIL WORK				
1.0	DSR No. 2.7	Earth work in excavation by mechanical means (Hydraulic excavator) /manual means over areas (exceeding 30 cm depth ,1.5 in width as well 10 sqm on plan) including disposal of excavated earth , lead up to 50 m and lift up to 1.5 m , disposed earth to be levelled and neatly dressed .				
2.0	DSR No. 2.7.1	Ordinary rock	CUM	1500	152.6	228900.0
3.0	DSR No. 2.7.2	Hard rock (blasting prohibited)	CUM	1500	325.3	487875.0
4.0	DSR 2.8	Earth work in excavation by mechanical means (Hydraulic excavator) /manual means in foundation trenches or drains (not exceeding ,1:5 in width as well 10 sqm on plan) including dressing of sides and ramming of bottoms , lift up to 1.5 m ,including getting out the excavated soil and disposal of surplus excavated soil as directed , within a lead of 50 m.				
	DSR 2.8.1	All kinds of soil	CUM	600	103.4	62040.0
5.0	DSR 2.25	Filling available excavated earth (excluding rock) in trenches,plinth,sides of foundations etc.in layers not exceeding 20 cm in depth consolidation each deposited layer by ramming and watering , lead up to 150 m and lift up to 1.5m.	CUM	1500	45.7	68550.0
Total of Sub-head C/F to Summary						847365.0


 architects atelier
 (Partner)

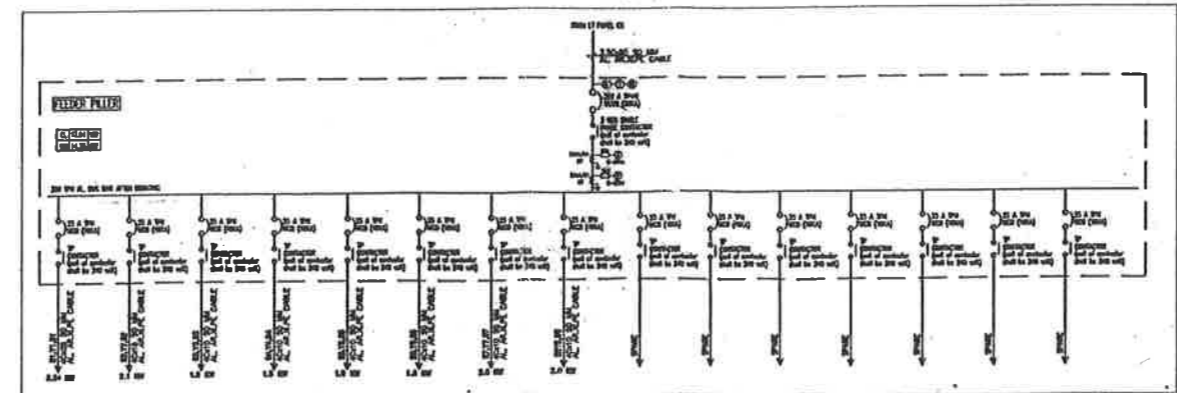


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C.O.S. TA. TS
 HVAC, PLUMBING, ELECTRICAL & FIRE FIGHTING
 ELER SARE CON-SULTANTS PVT.LTD.
 705, Vast... B. C. P. 55, 4th floor
 New Dehli - 110009
 M. 91-11-4676700 (01-30) email : info@elersare.com
 FILE NAME : swwr

LEGEND :-		QTY
	84W LED FIXTURE ON 10 MT. POLE DOUBLE ARM.	18
	84W LED FIXTURE ON 12 MT. POLE SINGLE ARM.	161
	CABLE	
	FEEDER PILLAR	
	300MMØ HUME PIPE	



For Architects Atelier

 (Partner)

SITE PLAN EXTERNAL LIGHTING			
DATE	SCALE	DATE	SCALE
DESIGNED BY	DESIGNED BY	DATE	SCALE
CHECKED BY	CHECKED BY	DATE	SCALE
PROJECT NO.	PROJECT NO.	DATE	SCALE
architects atelier architects atelier pvt. ltd. arch tech projects pvt. ltd. 1008, 1009, 1010 Chandigarh-160017 M. 9052720272 mobile 9814047223 fax 90540			

ANNEXURE
B&WC/2010/21A-9

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Annexure BWC/2010/A-9

Sl. No	Name of Work	Amount of A/A & E/S	Date of approval
1	Construction of temporary provision of Septic tank at Hall of Residence 1	342972	08.12.2009
2	SITC and obtaining statutory approval for one number 250 kva D.G. Set and its Auxiliary works	14 lacs	29.12.2009
3	Construction of Design display unit near Core Lab on PDPM-IIITDM, Jabalpur	1122675	02.01.2010
4	Making pathway near canteen & shop, s.s. railing in canteen and main entrance of workshsop(annexe) of PDPM-IIITDM, Jabalpur	770416	12.03.2010
5	Construction of rooms(5 nos) with A.C. Sheet roofing for miscellaneous	740263	12.03.2010
6	Construction of chambers for faculty members	1104572	12.03.2010
7	Construction of Car Parking at Core lab Complex	337138	15.03.2010
8	Supply of Electric items of approved makes of IS marks	801613	18.03.2010
9	Demargation of grid line, buildings, etc.on ground by Total Station survey.	352981	24.03.2010
10	Construction of shed for temporary class room Core Lab of PDPM-IIITDM Jabalpur	1076693	24.04.2010
11	Construction aproach road for Triple Seated Hall of Residence 1	478649	10.05.2010
12	Electrification for Faculty room, Bank and Shops	292931	22.05.2010
13	Construction of temporary provision of septic tank with RCC hume pipe for 5 nos block of Triple Seated Hostel	449321	24.05.2010
14	Drilling of 2 nos borewell at Hostel area of PDPM-IIITDM Jabalpur	432197	24.05.2010
15	Electrification of Class room/design display units	271577	25.05.2010
16	Construction of Toe wall for play fields	1109556	08.06.2010
17	Construction of Tennis court(2 nos) of PDPM-IIITDM Jabalpur	1227258	07.06.2010
18	Contruction of Security Barrack	7491500	07.04.2010
19	Aluminum partition in Electronic lab & workshop anexi and false ceiling in workshop anexi.	571535	8.07.2010
20	P/F Tubular pipe structure gate & name board at main entrance of PDPM-IIITDM Jabalpur	154500	10.07.2010
21	P/F Signage boards along the route to the Institute	86520	10.07.2010
22	Power supply to triple seated hostel from CSS 3 (to block no 3)	485712	10.07.2010
23	Providing and laying of L.T cable (3.5 c x 400 m2) armoured cable triple seater hostel block no. 6 to C.S.S 3)	492413	10.07.2010
24	Supply of lighting fitting for temporary class room / design display unit	72000	10.07.2010